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BULLETIN OF INFORMATION

Forty-fourth Series, No. 18

April 8, 1944

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

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Columbia University Bulletin of Information

Forty-fourth Series, No. 18

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These include the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, and of certain Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 6,700—1944

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3-2500.

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ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1944-1945



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THE SCHOOL OF DENTAL AND ORAL SURGERY

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HOUGHTON HOLLIDAY, A.B., D.D.S. *Associate Dean and Secretary of the Faculty*

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CHARLES F. BODECKER	JAMES W. JOBLING
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MOSES DIAMOND	DONALD J. W. McLAUGHLIN
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WILLIAM B. DUNNING	LEUMAN M. WAUGH
MAGNUS I. GREGERSEN	DANIEL E. ZISKIN
LEROY L. HARTMAN	

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Assistant Bacteriologist, Division of Laboratories and Research, State Department of Health; Attending Dental Surgeon, Bryson Day Nursery.
ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
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¹ On leave 1944-1945.

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 Visiting Oral Surgeon, Morrisania Hospital; Associate Oral Surgeon,
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 B.S., Columbia, 1917; M.D., 1923.
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 A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vander-
 bilt, 1933; D.P.H., Harvard, 1936.
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 D.D.S., New York College of Dentistry, 1914. *[Oral Anatomy]*
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 1925; Yale, 1926; Western Reserve, 1931.
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 D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; *[Oral Surgery]*
 B.S., New York University, 1915.
 Attending Oral Surgeon, Manhattan Eye, Ear, and Throat, Presbyterian, Sloane, and Babies
 Hospitals, and Vanderbilt Clinic; Consulting Maxillofacial Surgeon, Jersey City Medical Center;
 Consulting Oral Surgeon, Knickerbocker, Nassau, New York Foundling, Roosevelt, St. Vincent's,
 St. Luke's, Mary Immaculate, Jamaica, Norwalk, State Reconstruction, West Haverstraw, Green-
 wich, Stamford, United Port Chester, North Hudson, Meadowbrook, and Hackensack General Hos-
 pitals, Hospital for Ruptured and Crippled, National Hospital for Speech Disorders, and Vassar
 Brothers Hospital, Poughkeepsie.
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 D.D.S., New York College of Dentistry, 1895. *[Theory and Practice]*
 Director of the Department of Dentistry, New York Orthopaedic
 Dispensary and Hospital.
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 D.D.S., Michigan, 1908.

¹ On leave 1944-1945.

SCHOOL OF DENTAL AND ORAL SURGERY 5

- JOSEPH D. EBY *Assistant Professor of Dentistry*
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- ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917.
- EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- JOHN WILLIAM FERTIG *Professor of Biostatistics*
A.B., Ursinus, 1931; Ph.D., Minnesota, 1935.
- FREDERICK BONNER FLINN *Associate Professor of Industrial Hygiene*
A.B., Johns Hopkins, 1900; Ph.D., Columbia, 1923.
- MAGNUS INGSTRUP GREGERSEN *Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- LEROY LEO HARTMAN *Professor of Dentistry*
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Attending Dental Surgeon, Presbyterian Hospital.
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D.D.S., Pennsylvania, 1905; Sc.D., 1933; Sc.D., Witwatersrand, [Orthodontic Research]
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Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint
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- ¹JOSEPH HENRY HOLMES *Assistant Professor of Physiology*
A.B., Amherst, 1930; M.D., Western Reserve, 1934; Med. Sc.D., Columbia, 1941.
- EARLE BANKS HOYT *Professor of Dentistry*
D.D.S., Pennsylvania, 1918. [Prosthetics]
- JAMES WESLEY JOBLING *Delafield Professor of Pathology*
M.D., Tennessee Medical, 1896.
Director and Attending Pathologist, Presbyterian Hospital; Consulting Pathologist, Sloane
Hospital.
- CLAUS W. JUNGBLUT *Professor of Bacteriology*
M.D., Berne, 1921.
- MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- WILLIAM LEFKOWITZ *Assistant Professor of Dentistry*
D.D.S., Columbia, 1924. [Oral Histology]
- HAROLD JUDSON LEONARD *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915. [Periodontology]
Attending Dental Surgeon, Presbyterian Hospital.
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914.
Director, Psychiatric Institute and Hospital; Director and Attending Psychiatrist, Vanderbilt
Clinic; Consultant in Psychiatry, Presbyterian Hospital.
- GEORGE FRANK LINDIG *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1924. [Operative]

¹ On leave 1944-1945.

- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921. [Pedodontics]
- FRANCIS STEPHEN McCAFFREY *Associate Professor of Dentistry*
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915. [Oral Surgery]
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon,
Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Consulting Oral Surgeon,
Manhattan State Hospital, and St. Joseph's Hospital, Yonkers, N. Y.
- MORELL DION McKENZIE *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1917. [Prosthetics]
- DONALD JOHN W. McLAUGHLIN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1926. [Prosthetics]
- MILTON ROBERT MILLER *Assistant Professor of Dentistry*
B.S., Columbia, 1928; D.D.S., 1930. [Operative]
Attending Dental Surgeon, Unity Hospital.
- EDWARD GERALD MURPHY *Assistant Professor of Dentistry*
D.D.S., Michigan, 1924. [Orthodontics]
- HARRY STOLL MUSTARD *Professor of Public Health Practice and*
Director of the DeLamar Institute of Public Health
M.D., Medical College of South Carolina, 1911; B.S., College of Charleston, 1914; LL.D., 1938.
- JOHN LESTER NICKERSON *Assistant Professor of Physiology*
B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1934.
- CARL REUBEN OMAN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1914. [Operative]
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island, 1912; D.D.S., Pennsylvania, 1914.
Attending Oral Surgeon, City Hospital; Assistant Attending Oral Surgeon,
Babies Hospital and Vanderbilt Clinic; Consultant in Oral Surgery, Swedish, Vassar, U. S. Veter-
ans', and Grasslands Hospitals; Consulting Oral Surgeon, Yonkers General Hospital and Law-
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- EARLE BERNARD PHELPS *Professor Emeritus of Sanitary Science*
B.S., Massachusetts Institute of Technology, 1899.
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Assistant Attending Dental Surgeon, Presbyterian Hospital.
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- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
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B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
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B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930. [Pedodontics]
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; [Oral Surgery]
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¹ On leave 1944-1945.

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D.M.D., Tufts, 1918.
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A.B., Earlham, 1929; Ph.D., Chicago, 1932.
- GILBERT PERCIVAL SMITH Assistant Professor of Dentistry
D.D.S., Minnesota, 1927. [Prosthetics]
- PHILIP EDWARD SMITH Professor of Anatomy
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
- EDITH E. SPROUL Assistant Professor of Pathology
M.D., Columbia, 1931.
Assistant Attending Pathologist, Presbyterian Hospital.
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- LEWIS RIDDELL STOWE Associate Professor of Dentistry
D.D.S., Minnesota, 1916. [Pedodontics]
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Consultant in Dental and Oral Surgery, Neurological Institute.
- ARTHUR CRANSTON TOTTEN Assistant Professor of Dentistry
D.D.S., Pennsylvania, 1926. [Orthodontics]
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D.D.S., Buffalo, 1900. [Orthodontics]
Consultant in Orthodontics, New York Infirmary for Women and Children.
- HARRY ALLEN YOUNG Associate Professor of Dentistry
D.D.S., Indiana, 1919. [Prosthetics]
- EDWARD VICTOR ZEGARELLI Assistant Professor of Dentistry
A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942. [Diagnosis]
- DANIEL E. ZISKIN Associate Professor of Dentistry
D.D.S., Minnesota, 1917. [Diagnosis]
Associate Attending Dental Surgeon, Presbyterian Hospital.
-
- JAMES BOYD ALLISON, B.S., Ph.D. Lecturer in Physiology
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- WALTER REGINALD BEAVEN, D.D.S. Instructor in Pharmacology
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¹ On leave 1944-1945.

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¹ On leave 1944-1945.

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ESTHER MACULLA, A.M.	<i>Instructor in Pharmacology</i>
EMANUEL A. MANGINELLI, M.D.	<i>Instructor in Neurology</i>
¹ ROBERT IRVING MASON, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
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WILLIAM JOHN MILLER, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
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HARRY NEIVERT, M.D.	<i>Assistant Clinical Professor of Otolaryngology</i>

¹ On leave 1944-1945.

- FERDINAND G. NEUROHR, D.D.S. *Special Lecturer in Dentistry*
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[Orthodontics]
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- ¹ELIZABETH E. PAINTER, Ph.D. *Instructor in Physiology*
- ¹THEODORE R. PARKER, A.B., D.M.D. *Instructor in Dentistry*
[Oral Surgery]
- FRANCIS J. W. ROUGHTON, B.A., Ph.D., F.R.S. . . *Research Associate in Physiology*
- BENJAMIN SALZER, M.D. *Instructor in Neurology*
- LOUIS SCHORR, D.D.S. *Special Lecturer in Dentistry*
[Prosthetics]
- ALBIN ROBERT SEIDEL, D.M.D. *Instructor in Dentistry*
Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital. [Oral Surgery]
- HERBERT F. SILVERS, B.S., D.D.S. *Research Assistant*
[Diagnosis]
- GEORGE STEIN, M.D., D.M.D. *Research Assistant*
[Diagnosis]
- FERDINAND A. STEWART, JR., A.B., D.D.S. *Instructor in Dentistry*
[Oral Surgery]
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- BERNARD O. A. THOMAS, M.S., D.D.S. *Instructor in Dentistry*
[Oral Histology]
- WILLIAM W. WALCOTT, A.B. *Instructor in Physiology*
- GENEVA HASTINGS WALLS *Instructor in Dentistry*
[Courses for Dental Hygienists]
- SHIH CHUN WANG, B.S., M.D., Ph.D. *Instructor in Physiology*
- DONALD BYERS WAUGH, D.D.S. *Instructor in Dentistry*
[Orthodontics]

¹ On leave 1944-1945.

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SAMUEL B. DRELICH, D.D.S.	HERBERT STOLLMACK, D.D.S.
JAMES JAY, D.D.S.	

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ALBIN R. SEIDEL, D.M.D., *Director*

Attending Dental Surgeons

ADOLPH BERGER, D.D.S.	HAROLD J. LEONARD, A.B., D.D.S.
LEROY L. HARTMAN, D.D.S., Sc.D.	FRANCIS S. McCAFFREY, B.S., D.D.S.
ISADOR HIRSCHFELD, D.D.S.	ALBIN R. SEIDEL, D.M.D.
HOUGHTON HOLLIDAY, A.B., D.D.S.	

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.	LEWIS R. STOWE, D.D.S.
JOSEPH SCHROFF, B.S., M.D., D.D.S.	DANIEL E. ZISKIN, D.D.S.

Assisting Attending Dental Surgeons

HOWARD T. APPLGATE, D.D.S.	KENNETH F. CHASE, D.M.D.
WILLIAM W. BAADÉ, D.D.S.	¹ ROBERT W. NORTHROP, D.D.S.
FRANK E. BEUBE, L.D.S., D.D.S.	JOHN F. RALSTON, D.D.S.

Interns

NATHAN HAROLD LINK, B.S., D.D.S.	GENNARO ROBERT CARVELLI, D.M.D.
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PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, B.S., M.D., D.D.S.	<i>Attending Oral Surgeon</i>
DOUGLAS B. PARKER, M.D., D.D.S.	<i>Assistant Attending Oral Surgeon</i>

¹ On leave 1944-1945.

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Provost of the University</i>
HENRY M. SCHLEY, B.S.	<i>Comptroller</i>
PHILIP M. HAYDEN, A.M.	<i>Secretary of the University</i>
¹ FRANK H. BOWLES, A.M.	<i>Director of University Admissions</i>
L. CARRINGTON GOODRICH, Ph.D.	<i>Acting Director of University Admissions</i>
BERNARD P. IRELAND, A.M.	<i>Assistant Director of University Admissions</i>
¹ JOSEPH M. MURPHY, A.M.	<i>Assistant Director of University Admissions</i>
CARL M. WHITE, Ph.D.	<i>Director of Libraries</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
W. EMERSON GENTZLER, A.M.	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>
FREDERICK MILLER, C.E.	<i>Assistant Director of Buildings and Grounds</i>
¹ REV. STEPHEN FIELDING BAYNE, JR., S.T.M.	<i>Chaplain of the University</i>
RALPH J. FUREY, A.M.	<i>Acting Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>
THOMAS A. MCGOEY, M.S.	<i>Director of University Residence Halls</i>
MARGARET BARNARD PICKEL, Ph.D.	<i>Adviser to Women Graduate Students and Head of Johnson Hall</i>
¹ ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>
MARY A. WEGENER	<i>Acting Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.M.	<i>Alumni Secretary</i>
THOMAS P. FLEMING, M.S.	<i>Medical Librarian</i>

¹ On leave 1944-1945.



ENTRANCE TO THE SCHOOL OF MEDICINE AND THE SCHOOL
OF DENTAL AND ORAL SURGERY

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments with students of the College of Physicians and Surgeons.

During the national emergency the School will be on an accelerated program which, without changing the content of the course, will permit the student to graduate in three calendar years. Under the Army Specialized and the Navy Collegiate Training Programs, classes are enrolled at nine-month intervals. Classes will begin their training in October, 1944, and in July, 1945.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or

elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserve power of the President, in the Dean of each faculty and the Director of the work of each administrative board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year. During the national emergency, it is planned to issue diplomas at periods of approximately nine months, as each class completes the requirements.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

- An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a dis-

charge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school or faculty concerned may, for reasons of weight, grant a leave of absence to a student in good standing.

When entry into the armed service takes place after the opening of any session, students should consult the Registrar for information as to special adjustment of fees or credits.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in the Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 120,000 volumes and about 10,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. A trained library staff provides specialized services to meet the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. The library has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,300 current journals, and near by are shelved files of reviewing, indexing, and abstracting services and a selection of the more important journals. All other journals are in the stacks. A special alcove contains the latest available literature relating to war medicine.

University Libraries. The Libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to

10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation. The University Medical Officer, Dr. W. H. McCastline, has supervision of all matters affecting the health of the student body.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, 500 Riverside Drive, is a privately endowed residence for students from foreign lands and a limited number of American students. It accommodates 175 women and 325 men and contains a restaurant and social rooms. Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the campus entrance, are the offices of the Chaplain of the University and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on B floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services.

HAMILTON ARBORETUM AND GARDENS ("NEVIS")

The Hamilton Arboretum and Gardens ("Nevis"), an estate of approximately seventy-two acres, the gift of Mrs. T. Coleman du Pont, of Wilmington, Delaware, is located at Irvington-on-Hudson, about sixteen miles north of New York City. Classes in landscape architecture and general horticulture meet at "Nevis," and special lectures are arranged from time to time.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$1.25 in cloth and \$.50 in paper. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the

Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

For the period of the national emergency, the minimum requirement for admission to the first year class has been reduced from the satisfactory completion of three full years to the satisfactory completion of two full years (four sessions) at an acceptable college of arts and sciences, which must include the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a pro-

fessional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

SUMMER SESSION

In 1944 there will be no separate Summer Session, regular classes continuing throughout the summer with a vacation period in the month of July.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the completion of at least four years of high school work, including certain specific subjects, the attainment of at least eighteen years of age, and the qualifying certificate obtained from the Department of Education of the State of New York. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. For full information address Mrs. FRANCES A. STOLL, at 630 West 168th Street, New York 32, N. Y.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1944-1945 short refresher courses will be offered in various subjects in accordance with demand. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Postgraduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half-time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have com-

plied with the requirements stated below. The requirements for admission are graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country, and membership in good standing in the applicant's national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery. The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized fourteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health for dentists is offered. The course is open to graduate dentists. For information regarding course content, registration, and fees apply to the DeLamar Institute of Public Health, 600 West 168th Street, New York 32, N. Y.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees. Tuition fees for men in the Army Specialized and Navy Collegiate Training Programs are paid by the government.

The following fees are prescribed for dental students:

- | | |
|---|---------|
| (a) University Fee | |
| For all students for each session, or for any part thereof | \$10.00 |
| (b) Tuition Fee | |
| For the course in dentistry for one half an academic year (or equivalent) in the case of a student enrolled for the full course | 250.00 |
| (The total tuition fees, not including special fees, for the complete prescribed course in dentistry will continue to be \$2,000.) | |
| For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes. | |
| (c) Fee for Application | |
| 1. For a degree | 20.00 |
| 2. For a certificate | 10.00 |
| (d) Privileges | |
| 1. Late registration or late application for a degree or certificate or for deficiency or special examinations | 3.00 |
| 2. Deficiency or special examinations | 3.00 |
| 3. Renewal of application for any degree or certificate | 1.00 |
| (e) Student Activities (payable annually) | |
| 1. For all students, Columbia <i>Dental Review</i> | 1.50 |
| 2. For sophomores, juniors, and seniors, junior membership in the American Dental Association | 3.00 |
| 3. Student activities | .50 |
| (f) Case Rental | |
| For sophomores, juniors, and seniors, rental for one instrument case, for each semester | 2.50 |

(g) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. If a student withdraws from the School a partial return of tuition fee may be authorized by the Registrar.
When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

(h) Deposit \$25.00

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specified session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
	Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp. During the national emergency it is possible to rent microscopes from the University Book Store at a rental fee of \$20 for an academic year.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1942-1943 and can be accepted as applicable in general for the year 1944-1945 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$555.00	\$530.00
Room	235.00	175.00
Board	325.00	250.00
Books	80.00	40.00
Instruments (see below)	200.00	200.00
Laundry	50.00	36.00
	<hr/>	<hr/>
	\$1,445.00	\$1,231.00

The approximate cost of instruments for the four-year course is \$650 plus the cost of the microscope. It may be necessary to rent some instruments from the University. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

The government lends books and instruments to men in the Army Specialized and Navy Collegiate Training Programs.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class Faculty under which he has studied during the preceding year.

2. The Faculty of the School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement

- a) Unconditionally
- b) Conditionally

II. Recommended for readmission to the same class

III. Recommended neither for advancement nor for readmission to the same class

- a) Because of failure
- b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

NATIONAL BOARD OF DENTAL EXAMINERS

The National Board of Dental Examiners provides an examination in the theory of the science of dentistry. The clinical examination, in every instance, is reserved for the state examining board. A certificate of qualification will be issued to each candidate approved by the National Board when the candidate has been in actual practice for three years after his graduation and has submitted new and satisfactory evidence of his moral and ethical standards of professional conduct. To date the following states have dental laws permitting their licensing authorities to recognize the certificate of qualification of the National Board of Dental Examiners: Alabama, Connecticut, Delaware, Indiana, Iowa, Illinois, Kansas, Maine, Minnesota, Nebraska, Pennsylvania, South Dakota, and Virginia.

Only such undergraduates as may be certified by their respective deans shall be eligible to the National Board examinations. The examinations are held in two separate parts. Part I, which is open to undergraduate candidates who have met the pre-dental requirements and have successfully completed the first two years of work in an approved dental school, consists of a written examination in the following sciences: anatomy, general and dental; bacteriology; physiology; general pathology; histology, general and dental, including embryology; physiological chemistry and metallurgy. Part II, which is open to undergraduate candidates who have passed Part I and have successfully completed the senior year or are eligible for the final examinations of the senior year in an approved dental school, consists of a written examination in each of the following subjects: operative dentistry; materia medica and therapeutics; prosthetic dentistry, including partial and full denture, fixed and removable bridgework, and crown construction; oral and dental surgery; orthodontia, radiology, jurisprudence and ethics; oral pathology and anesthesia. Usually the examinations are given twice a year, in January and May. Application should be made to GORDON L. TEALL, D.D.S., Secretary of the National Board of Dental Examiners, Hiawatha, Kansas.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects

of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examinations or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Grover C. Beckwith-Ewell.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award, the income from \$1,000, is given

annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

The E. D. Newman award is made annually by the Alpha Omega Fraternity to the member of the graduating class who has received the highest scholastic average for the entire professional course.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual certificate award for proficiency in dentistry for children has been established by the *Dental Columbian* of the Class of 1939.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 percent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to sophomores, juniors, and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE DENTAL ABSTRACT SOCIETY

The Dental Abstract Society is open to all students and staff members who are interested in current dental literature. Monthly meetings are held, at which abstracts of selected articles from current periodicals are read and discussed.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, LOUIS CITRON, D.D.S.

Vice-President, HERMAN SCHECKMAN, D.D.S.

Secretary, DONALD WAUGH, D.D.S.

Treasurer, HANNAH J. APPEL, D.D.S.

Editor, LOUIS I. ABELSON, D.D.S.

Any graduate, former student, Faculty member, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

By utilizing the summer periods, the work of the four academic years will be covered in three calendar years during the national emergency.

<i>Subject</i>	<i>Trimester Credits</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FRESHMAN YEAR:				
Anatomy				
Embryology	2	20	...	20
Gross	15	60	262	322
Microscopic	8	38	126	164
Neuro	4	60	...	60
Oral	6	18	95	113
Biochemistry	8	35	105	140
Histology, oral	2	7	61	68
Physiology	10	56	148	204
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SOPHOMORE YEAR:	55			1,091
Bacteriology	7	40	90	130
Crown and bridge	4	10	85	95
Dental materials	2	...	40	40
Oral hygiene	2	20	...	20
Operative dentistry	9	20	220	240
Pathology	11	70	130	200
Periodontology	1	...	30	30
Pharmacology	6	40	60	100
Prosthetic dentistry	10	20	210	230
Psychopathology	1	10	...	10
Radiology	1	10	...	10
Surgery, Oral	2	20	...	20
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JUNIOR YEAR:	56			1,125
Anatomy, applied	1	10	...	10
Crown and bridge				
Technic	6	10	105	115
Clinic	1	...	30	30
Porcelain	2	...	60	60
Round wire	1	...	30	30
Diagnosis, dental	4	30	30	60
Operative dentistry	11	20	300	310
Orthodontics	5	20	75	95
Pathology, oral	4	20	60	80
Periodontology	1	...	30	30
Pharmacology, applied	1	10	...	10
Prosthetic dentistry	7	20	150	170
Public health	2	20	...	20
Radiology	1	...	30	30
Surgery, oral	2	10	30	40
Theory and practice	2	20	...	20
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SENIOR YEAR:	51			1,110
Crown and bridge	6	10	150	160
Diagnosis, dental	1	...	30	30
Operative dentistry	13	20	330	350
Pedodontics	4	10	90	100
Periodontology	3	20	25	45
Practice of medicine	7	60	20	80
Prosthetic dentistry	6	10	150	160
Surgical prosthesis	1	...	30	30
Surgery, oral	4	40	60	100
Theory and practice	1	10	...	10
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Senior electives	46			1,065
Oral pathology	15	...	15
Oral surgery	30	...	30
Orthodontics	30	30
Public health . . . . .	...	...	48	48

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of home work. For laboratory or clinical work it represents three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on page 27 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

Courses enclosed in brackets are not given in 1944-1945.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits. Professors DIAMOND and APPLEBAUM and assistants.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits. Professors BODECKER and LEFKOWITZ and Dr. THOMAS.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 8 credits. Professors P. E. SMITH, COPENHAVER, ENGLE, SEVERINGHAUS, and assistants.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits. Professor ROGERS and assistants.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits. Professors DETWILER, COPENHAVER, ROGERS, and SMELSER.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits. Professors ELWYN and BRICKNER, Drs. SALZER, LYONS, and MANGINELLI.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit. Professor SHAPIRO.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits. Dr. CLARK and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits. Professors DOCHEZ and JUNGBLUT and staff.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

[Bacteriology 253—Bacteriology and etiology of dental disease. Junior year. 1 credit.

Not given in 1944-1945.]

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits. Professor KARSHAN and assistants.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. Sophomore year. 4 credits. Professors HOYT and McLAUGHLIN and Dr. JUNEMANN.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. Junior year. 6 credits. Professors HOYT and McLAUGHLIN and Dr. JUNEMANN.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 206—Crown and bridge clinic. Junior year. 1 credit. Professor McLAUGHLIN and Dr. JUNEMANN.

Clinical construction of elementary crown and bridgework.

First given in 1943.

Crown and Bridge 207—Porcelain technic. Junior year. 2 credits. Professor McLAUGHLIN.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Junior year. 1 credit. Dr. ZERR.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. Senior year. 1 credit. Professor HOYT.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Senior year. 7 credits. Professors HOYT, McLAUGHLIN, and G. P. SMITH and Drs. BOYD and JUNEMANN.

Clinical construction of crown and bridgework.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits. Dr. JUNEMANN.

Metallurgical processes and apparatus and physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits. Professors ZISKIN, STOWE, ROSENSTEIN and ZEGARELLI and Dr. CUTTITA.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal dys-harmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit. Professors ZISKIN, STOWE, ROSENSTEIN and ZEGARELLI and Dr. CUTTITA.

Continuation of clinic of *Diagnosis 212*.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 7 credits. Professor McBEATH and associates.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 9 credits. Professors HARTMAN, OMAN, LINDIG, and M. R. MILLER and Dr. HUNT and assistants.

Lectures, laboratory, demonstrations, and clinical practice in operative dentistry. The use and care of operative instruments and materials. The technic of cavity preparation, fillings, and gold inlays.

Operative Dentistry 233—Operative clinical practice. Junior year. 11 credits. Professors HARTMAN, OMAN, LINDIG, and M. R. MILLER and Drs. HUNT, THOMAS, and assistants.

Lectures, laboratory, clinical practice, and demonstrations in the various operative procedures.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits. Professors HARTMAN, OMAN, LINDIG, M. R. MILLER and Drs. HUNT, THOMAS, and assistants.

Lectures, clinical practice, and demonstrations in root-canal therapy and advanced operative dentistry.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits. Professor LEONARD.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 5 credits. Professors WAUGH, BARBER, CALLAWAY, MURPHY, TOTTEN, and staff.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 243—Orthodontic elective. Senior year. No credit. Professor WAUGH.

Clinical orthodontics. Offered to seniors who are eligible for electives.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 11 credits. Professors JOBLING and SPROUL and assistants.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits. Professors CAHN and BARTELS.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective. Professor CAHN.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits. Professors McBEATH, STOWE, and ROSENSTEIN.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit. Professors LEONARD, HOLLIDAY, BEUBE, and Dr. FRIEDLANDER.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251—Periodontia clinic. Junior year. 1 credit. Professors LEONARD, HOLLIDAY, BEUBE, and Dr. FRIEDLANDER.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits. Professors LEONARD and HIRSCHFELD and Dr. MERRITT.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit. Professors LEONARD, HOLLIDAY, BEUBE, and Dr. FRIEDLANDER.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits. Drs. BEAVEN and HUMBERT.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. Senior year. 1 credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 10 credits. Professor GREGERSEN and assistants.

Lectures, conferences, and laboratory. This course is equivalent to *Physiology 101* in the Medical School, with medical and dental students taking the lectures together.

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits. Professors HOYT, YOUNG, and MCKENZIE and Dr. JUNEMANN.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits. Professors YOUNG and G. P. SMITH.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Prosthetics 261—Prosthetic clinic. Junior year. 5 credits. Professors YOUNG and McKENZIE and Dr. JUNEMANN.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 6 credits. Professors HOYT, YOUNG, McLAUGHLIN, G. P. SMITH, and McKENZIE and Drs. JUNEMANN and BEDER.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit. Professor HOYT and guest lecturers.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit. Dr. BEDER.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit. Professor LEWIS.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances. Principles of mental hygiene and environmental adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 2 credits. Professors MUSTARD, EAST, FERTIG, and staff.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks. Professor FERTIG, Dr. GREENBERG, and staff.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Junior year. 1 credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year. 2 credits. Professor PARKER.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases.

Surgery 270—Oral surgery. Junior year. 2 credits. Professors H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, and assistants.

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 4 credits. Professors H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, APGAR, and assistants.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in the removal of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective. Professors H. S. DUNNING, BERGER, PARKER, and McCAFFREY.

Presentation and demonstrations of oral pathological and maxillofacial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Junior year. 1 credit. Professor W. B. DUNNING.

Lecture and conference course on dental ethics, economics, office conduct and routine.

Theory and Practice 282—Dental jurisprudence. Junior year. 1 credit. Professor W. B. DUNNING.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Senior year. 1 credit. Dr. LEAK.

Lecture and conference course in dental history.

Theory and Practice 284—Senior thesis. Professor HOLLIDAY.

Each senior is required to present a thesis representing original reading, scientific research, or both, to be completed under the immediate supervision of Professor HOLLIDAY and with the help of an adviser in the field selected, and with the final approval of the Research Committee.

Theory and Practice 285—Comprehensive case. Junior and senior years. Professor HOLLIDAY and committee.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Required: Gray, *Anatomy*, \$12.00; Rogers, *Dissecting Manual*, \$.75. Recommended but not required: Cunningham, *Manual of Practical Anatomy*, \$12.75 a set; Cunningham, *Textbook of Anatomy*, \$12.00; Piersol, *Human Anatomy*, \$10.00.

Applied anatomy. Required: Shapiro, *Applied Anatomy of the Head and Neck*, \$5.50.

Embryology. Required: Arey, *Developmental Anatomy*, \$6.75.

Microscopic anatomy. Required: Bailey, *Textbook of Histology* (9th ed.), \$6.00.

Neuroanatomy. Required: Strong and Elwyn, *Human Neuroanatomy*, \$6.00.

Oral anatomy. Required: Diamond, *Dental Anatomy* (2d revised ed.), \$4.50.

Oral histology and embryology. Required: Bodecker, *Fundamentals of Dental Histology and Embryology* (Columbia ed.), \$4.00; *Laboratory Manual and Drawing Notebook*, *Oral Histology and Embryology*, \$1.00.

BACTERIOLOGY. Required: Jordan and Burrows, *Textbook of Bacteriology*, \$6.00.

Recommended but not required: Gordon, et al, *Dental Science and Dental Art*, \$9.50; Topley and Wilson, *Principles of Bacteriology and Immunity* (2d ed.), \$12.00.

BIOCHEMISTRY. Required: Everett, *Medical Biochemistry*, \$5.75; Karshan, *Laboratory Manual*, \$.75. Recommended but not required: Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$8.00.

CROWN AND BRIDGE. Required: Tylman, *Crown and Bridge Prosthesis*, \$10.00; Hoyt et al, *Crown and Bridge Syllabus*, \$.75. Recommended but not required: Le Gro, *Ceramics in Dentistry*, \$7.50; Felcher, *Porcelain in Dentistry*, \$9.00.

DENTAL MATERIALS. Required: *Physical Properties of Dental Materials*, Bureau of Standards Circular C 433, United States Government Printing Office, \$.75.

DIAGNOSIS. Required: *Differential Diagnosis of Mouth Diseases*, \$4.00. Mimeographed material furnished by the Department.

MEDICINE. Required: Yater, *Fundamentals of Internal Medicine*, \$9.00. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.50; Comroe, Collins, and Crane, *Internal Medicine in Dental Practice*, \$5.50; Meakins, *Practice of Medicine*, \$10.00.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, Vols. II and III, \$5.50 each. Mimeographed notes are also furnished by the Department.

ORAL HYGIENE. Required: Gordon, *Dental Science and Art*, \$9.50.

ORTHODONTICS. Recommended for collateral reading: Strang, *Textbook of Orthodontia* (2d ed.), \$10.00; Dewey and Anderson, *Practical Orthodontia* (15th ed.), \$8.50; McCoy, *Applied Orthodontia* (5th ed.), \$4.50; Salzman, *Principles of Orthodontics*, \$10.00.

PATHOLOGY. Required: W. A. D. Anderson, *Synopsis of Pathology*, \$6.00.

ORAL PATHOLOGY. Required: Cahn, *Pathology of the Oral Cavity*, \$5.50.

PEDODONTICS. Required: McBride, *Juvenile Dentistry*, \$6.50.

PERIODONTOLOGY. Suggested but not required: Goldman, *Periodontia*; Hirschfeld, *The Toothbrush*; Merritt, *Periodontia*.

PHARMACOLOGY. Required: Sollman, *Manual of Pharmacology*, \$8.75. Recommended but not required: *Accepted Dental Remedies*, \$1.00. Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Blayney, *Dental Pharmacology*, \$4.00; Cushny, *Pharmacology and Therapeutics*, \$6.50; McGehee, *Dental Pharmacology*, \$5.00.

PHYSIOLOGY. Required: Bard, MacLeod, *Physiology in Modern Medicine*, \$10.00; *Laboratory Manual*, \$.75.

PROSTHETIC DENTISTRY. Required: Anthony, *American Textbook of Prosthetic Dentistry*, \$11.00; Swenson, *Complete Dentures*, \$10.00; Young et al, *Syllabus*, \$1.60. Recommended but not required: Frahm, *Principles and Technics of Full Denture Construction*, \$7.00; E. Kennedy, *Partial Denture Construction*, \$7.50; Nichols, *Prosthetic Dentistry*, \$12.50.

PSYCHIATRY. Recommended but not required: Henderson and Gillespie, *Textbook on Psychiatry*, \$6.00; Hinsie, *Syllabus of Psychiatry*, \$2.50; Muncie, *Psychobiology and Psychopathology*, \$8.00; Noyes, *Modern Clinical Psychiatry*, \$5.00; Strecker, *Fundamentals of Psychiatry*, \$3.00; Strecker and Ebaugh, *Practical Clinical Psychiatry*, \$5.00; Weiss and English, *Psychosomatic Medicine*, \$8.00.

PUBLIC HEALTH. Recommended but not required: Salzmann, *Principles and Practice of Public Health in Dentistry*, \$4.00.

RADIOLOGY. Required: Ennis, *Dental Roentgenology* (3d ed.), \$6.50.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Homans, *Textbook of Surgery*, \$8.00. Recommended but not required: Berger, *Principles and Technique of the Removal of Teeth*, \$7.50; Flaggs, *Art of Anesthesia*, \$5.00; Parker, *Synopsis of Traumatic Injuries of the Face and Jaws*, \$4.50; Stout, *Human Cancer*, \$10.00.

DICTIONARY. Required: Stedman, *Medical Dictionary*, \$7.50. Recommended but not required: W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*, \$6.50. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50.

REGISTER OF STUDENTS

JANUARY 6, 1944 TO SEPTEMBER 30, 1944

GRADUATES—DECEMBER 23, 1943

Bell, Harold Malcolm Bridgeport, Conn.
B.S., Yale, 1939

Berck, Leo New York City
College of the City of New York

Bevilacqua, Thomas Joseph Brooklyn, N. Y.
A.B., Columbia, 1939

Bongiorno, Alfred Michael Brooklyn, N. Y.
A.B., Columbia, 1939

Brzustowicz, Stanislaw Henry Brooklyn, N. Y.
B.S., St. John's (N. Y.), 1940

Buchsbaum, Robert Bernard New York City
A.B., College of the City of New York, 1940

Bushel, Arthur Brooklyn, N. Y.
A.B., Brooklyn, 1940

Caltabiano, Henry Ignazio Brooklyn, N. Y.
New York University

Carlucci, Joseph Patrick New York City
B.S., Notre Dame, 1940

Catalano, Philip Patrick Brooklyn, N. Y.
B.S., St. John's (N. Y.), 1940

Corcoran, John William Central Islip, N. Y.
A.B., Columbia, 1940

Daglian, Kourken Arshag New York City
B.S., College of the City of New York, 1941

Devlin, Francis Patrick Jersey City, N. J.
B.S., St. Peter's (N. J.), 1940

Fiasconaro, Joseph Eugene Corona, N. Y.
B.S., College of the City of New York, 1940

Flashner, Jesse New York City
A.B., New York University, 1940

Friedman, Irving Brooklyn, N. Y.
New York University

Gutcho, Sanford Joseph Brooklyn, N. Y.
A.B., New York University, 1939

Heidenreich, Irwin Paul New York City
New York University

Hirschfeld, Leonard Saul New York City
A.B., Columbia, 1941

Kaplan, Stanley Lippmann Brooklyn, N. Y.
B.S., College of the City of New York, 1938

D.D.S., Iowa, 1942

Lifton, Simon Louis Long Island City, N. Y.
A.B., Columbia, 1939

Link, Nathan Harold Bradenton, Fla.
B.S., Bowling Green Business University, 1938

Lipson, Louis Staten Island, N. Y.
B.S., Columbia, 1939

Malgieri, Anthony Mario White Plains, N. Y.
B.S., Fordham, 1940

Massin, Murray Aaron New York City
A.B., Michigan, 1940

May, Edward Joseph Brooklyn, N. Y.
A.B., Columbia, 1941

Mendelson, Max New York City
A.B., Brooklyn, 1940

Miller, William John Woodside, N. Y.
A.B., New York University, 1940

Mondshine, Stanley Brooklyn, N. Y.
A.B., New York University, 1940

Mostofsky, Paul Brooklyn, N. Y.
B.S., College of the City of New York, 1940

Mufson, Abraham Isaac New York City
B.S., New York University, 1938

Nahoum, Henry Isaac Brooklyn, N. Y.
A.B., Brooklyn, 1940

Nief, Stanley Frederick Teaneck, N. J.
A.B., Cornell, 1940

Norian, Henry Karop Thompsonville, Conn.
B.S., Trinity (Conn.), 1941

Piper, Albert Omar Waterville, Maine
B.S., Colby, 1936

McGill Medical School

Plotnick, Samuel New York City
A.B., Columbia, 1940

Reilly, John Temple, Jr. St. Albans, N. Y.
B.S., Fordham, 1940

Rifkin, Meyer Yonkers, N. Y.
New York University

Saxon, Alfred Elliot New York City
New York University

Schneer, Richard Moses Far Rockaway, N. Y.
A.B., Virginia, 1940

Senderowitz, Samuel Brooklyn, N. Y.
A.B., New York University, 1939

Shattan, Boaz Kingston, N. Y.
A.B., Columbia, 1940

Shpuntoff, Harry New York City
B.S., College of the City of New York, 1939

Soraci, Frank Nicholas Yonkers, N. Y.
B.S., Manhattan, 1940

Taggard, Joseph Franklin New York City
B.S., Manhattan, 1939

Cornell Medical School

Tannenbaum, David New York City
B.S., College of the City of New York, 1934

Urbano, Armand Paul New York City
B.S., Manhattan, 1939

Vigersky, Harold Jersey City, N. J.
St. Peter's (N. J.)

Wesolowski, Vincent Thomas Brooklyn, N. Y.
St. John's (N. Y.)

Zane, Jerome Arthur New York City
New York University

FOURTH YEAR—CLASS OF SEPTEMBER, 1944

Amontree, Edward Joshua New York City
A.B., Columbia, 1941

Bershadsky, Sol Charles Bayonne, N. J.
A.B., New York University, 1940

Bibbo, James Vincent, Jr. New York City
A.B., Syracuse, 1941

Caulfield, Bernard Morris Bayside, N. Y.
B.S., St. John's (N. Y.), 1941

Citron, Sherman Ross Brooklyn, N. Y.
A.B., Columbia, 1939

A.M., Columbia, 1940

Cole, Robert Merton Tarrytown, N. Y.
A.B., Columbia, 1942

Conte, Joseph Frank Tuckahoe, N. Y.
B.S., Manhattan, 1941

- Cornell, Peter Joseph Brooklyn, N. Y.
B.S., St. John's (N. Y.), 1941
- DeLuke, Dominick Joseph Schenectady, N. Y.
A.B., Vanderbilt, 1941
- Dene, Ralph William Brooklyn, N. Y.
A.B., Brooklyn, 1941
- Desmond, Jeremiah Joseph New Haven, Conn.
B.S., Fordham, 1939
- Dorsey, John Henry Portland, Maine
B.S., Bowdoin, 1941
- Fookson, George New York City
A.B., New York University, 1941
- Fusco, Fulvio Francis New York City
B.S., College of the City of New York, 1940
- Georgiade, Nicholas George Jamaica, N. Y.
Fordham
- Girling, George Wesley W. Haverstraw, N. Y.
B.S., Manhattan, 1941
- Gordon, Jacob Brooklyn, N. Y.
Brooklyn
- Gormley, Eugene Joseph New York City
B.S., Manhattan, 1940
- Greene, George William, Jr. Brooklyn, N. Y.
B.S., Notre Dame, 1941
- Herlands, Robert Edward New York City
A.B., Columbia, 1941
- Holliday, Paul Houghton Tenafly, N. J.
B.S., Bowdoin, 1941
- Hribar, George Martin Elmhurst, N. Y.
B.S., Mt. St. Mary's, 1940
- Hyatt, John Wesley Short Hills, N. J.
A.B., Columbia, 1940
- Keneally, Francis Joseph New York City
A.B., Fordham, 1940
- Kornbluch, Frederick New York City
A.B., New York University, 1941
- Lackey, Leon Agee Kimball, W. Va.
A.B., Berea, 1941
- Lavori, William Philip Staten Island, N. Y.
B.S., College of the City of New York, 1941
- Leonard, William Francis Mt. Vernon, N. Y.
Oberlin
- Levinson, Stanley Bernard New York City
A.B., New York University, 1940
- McKeon, Raymond Xavier New York City
B.S., Manhattan, 1939
- Mandelberg, Philip Brooklyn, N. Y.
A.B., New York University, 1941
- Monahan, Leonard John New York City
B.S., Manhattan, 1940
- Morris, Robert Irving Bangor, Maine
A.B., Maine, 1941
- Muccia, Daniel Arthur New York City
A.B., Columbia, 1941
- Natelson, Estelle Marion Brooklyn, N. Y.
New York University
- Nesse, Gerald Jack New York City
A.B., New York University, 1940
M.S., New York University, 1941
- Orfanos, George Peter Long Island City, N. Y.
Columbia
- Quast, William Wentworth, Jr. West Hempstead, N. Y.
Columbia
- Rawitt, Eugene Richmond Hill, N. Y.
B.S., St. Peter's Col. (N. J.), 1938
A.M., New York University, 1939
- Rendich, Henry Joseph, Jr. Rockville Centre, N. Y.
B.S., St. Peter's Col. (N. J.), 1940
- Rogers, Jerome Alan New York City
B.S., College of the City of New York, 1941
- Sall, Hymie David Syracuse, N. Y.
A.B., Syracuse, 1940
- Salzman, Leonard New York City
B.S., College of the City of New York, 1941
- Sirna, Lawrence Edward New York City
B.S., St. John's (N. Y.), 1941
- Slusky, Melvin Brooklyn, N. Y.
A.B., New York University, 1941
- Smith, David Joseph Brooklyn, N. Y.
New York University
- Smith, George Allen, Jr. Port Chester, N. Y.
A.B., Columbia, 1942
- Sweeney, James Russel Washington, D. C.
A.B., Columbia, 1931
- Thoma, Robert Frank Lynbrook, N. Y.
Pennsylvania
New York University
- Wasserman, Bernard H. Brooklyn, N. Y.
A.B., Brooklyn, 1941
- Weiss, George Arthur Brooklyn, N. Y.
A.B., Brooklyn, 1941

THIRD YEAR—CLASS OF JUNE, 1945

- Abelson, Jacob New York City
B.S., College of the City of New York, 1941
- Arnold, Herbert New York City
A.B., New York University, 1942
- Baer, Paul Nathan Kew Gardens, N. Y.
A.B., Brooklyn, 1942
- Bartelstone, Herbert Jerome New York City
B.S., College of the City of New York, 1942
- Bell, Archie Harry Elizabeth, N. J.
Columbia
- Benfield, James Winston Hartsdale, N. Y.
A.B., Syracuse, 1925
- Blatman, Daniel Great Neck, N. Y.
Colby
- Boscarelli, Ignazio Frank New York City
B.S., Manhattan, 1942
- Brown, William James Brooklyn, N. Y.
Fordham
- Cain, Edward Andrew New York City
B.S., Fordham, 1942
- Cohen, Meyer Elizabeth, N. J.
B.S., Rutgers, 1938
- Colaneri, Joseph Nicholas New York City
A.B., Columbia, 1941
- Conaty, Arnold Paul Hartsdale, N. Y.
Brown
- Daly, William Jerome Brooklyn, N. Y.
A.B., Columbia, 1943
- Darrow, Norman Paterson, N. J.
A.B., Cornell, 1940
- Di Salvo, Nicholas Armand New York City
B.S., College of the City of New York, 1942
- Durant, Robert Edward New Bedford, Mass.
Boston College
- Freeman, Morris New York City
A.B., New York University, 1942
- Friedman, Marvin New York City
A.B., New York University, 1940

Gattegno, Edgar	New York City	Campbell, Paul Stine	Redlands, Calif.
A.B., New York University, 1942		Redlands	
Goodman, Robert	New York City	Castiglia, Hannibal Louis	Astoria, N. Y.
A.B., New York University, 1942		Columbia	
Halbrecht, Irving Daniel	Somerville, N. J.	Chason, Sidney	Bangor, Maine
A.B., New York University, 1942		A.B., Bowdoin, 1943	
Hogan, John Daniel	Highland Falls, N. Y.	Chnapko, Victor Peter	New York City
B.S., Notre Dame, 1942		B.S., Long Island, 1942	
Horowitz, Mervin Bell	New York City	Darling, Maus Vedder	Stamford, Conn.
B.S., College of the City of New York, 1942		A.B., Johns Hopkins, 1936	
Jacobs, William Ralph	Brooklyn, N. Y.	Della Rocca, Vincent Paul	New York City
A.B., Brooklyn, 1942		New York University	
Kaplan, Benjamin	New York City	De Vito, Joseph John	Brooklyn, N. Y.
Cornell		A.B., Columbia, 1943	
Largey, John Francis	New York City	Earneest, Franklin Arthur	New York City
B.S., Niagara, 1942		A.B., New York University, 1943	
Lieberman, Julius	New York City	Ellison, Solon Arthur	New York City
B.S., College of the City of New York, 1934		B.S., College of the City of New York, 1942	
M.S., College of the City of New York, 1940		Elvershofen, Walter	New York City
Madden, Robert Francis	Lake Placid, N. Y.	Columbia	
Fordham		Penning, Howard Rassler	Middletown, N. Y.
Mandel, Irwin Daniel	Brooklyn, N. Y.	A.B., Lafayette, 1942	
B.S., College of the City of New York, 1942		Fitz-Gibbon, John Hamilton	Holyoke, Mass.
Menasche, Salvatore	Brooklyn, N. Y.	Providence	
A.B., Brooklyn, 1942		Garber, Martin Aaron	Providence, R. I.
Mizingoff, Aaron Yale	New York City	Providence	
B.S., College of the City of New York, 1941		Gladue, Wilfred Harold	Woonsocket, R. I.
Mitchell, Joseph James	Brooklyn, N. Y.	B.S., Rhode Island State, 1943	
B.S., St. John's (N. Y.), 1941		Halpert, Wesley	New York City
Mohr, Irving Ward	New York City	B.S., College of the City of New York, 1943	
A.B., New York University, 1942		Katz, Lester Edwin	New York City
Morelli, Nicholas Francis	Catskill, N. Y.	New York University	
A.B., Union, 1942		Kotch, Raymond Leonard	New York City
Oliveri, Gaspar Anthony,	Brooklyn, N. Y.	B.S., College of the City of New York, 1943	
B.S., St. John's (N. Y.), 1942		Kutscher, Austin Harrison	New York City
Ostreicher, Herbert Paul		New York University	
Jackson Heights, N. Y.		Levin, Alfred Warren	New York City
A.B., Columbia, 1943		New York University	
Sarkady, Lester Samuel	Brooklyn, N. Y.	McElroy, Joseph Raymond	Brooklyn, N. Y.
A.B., New York University, 1942		St. John's University	
Shwalb, Richard Abraham	Brooklyn, N. Y.	Mandel, Louis	New York City
A.B., Columbia, 1943		A.B., New York University, 1943	
Siegel, Fred Morris	Schenectady, N. Y.	Minervini, George August	Yonkers, N. Y.
Union		A.B., Columbia, 1942	
Steinberg, Charles	New York City	Morris, Robert Darcy	Jackson Heights, N. Y.
B.S., College of the City of New York, 1941		A.B., Fordham, 1943	
Stella, Armand Matthew	New York City	Moss, Melvin Lionel	New York City
B.S., Manhattan, 1942		A.B., New York University, 1942	
Stern, Leo, Jr.	New York City	Mulcahy, Michael Joseph	New York City
A.B., Columbia, 1943		B.S., St. John's University, 1943	
Stone, Arnold	Flushing, N. Y.	Olinger, Donald Sundell	Glen Ridge, N. J.
Queens		Pennsylvania	
Tolge, Reinhold Bruno	Schenectady, N. Y.	Pane, John Thomas	New York City
Union		B.S., Fordham, 1942	
Zeh, William George	Glendale, N. Y.	Piro, John Donald	New York City
B.S., Long Island, 1942		Fordham	
		Rechter, Alfred	New York City
		B.S., College of the City of New York, 1943	
		Schonberg, Leon	New York City
		College of the City of New York	
		Schultz, Wilbert James, Jr.	New York City
		A.B., Hofstra, 1939	
		Schustak, Robert Leslie	
		Rockaway Beach, N. Y.	
		B.S., New York University, 1943	

SECOND YEAR—CLASS OF MARCH, 1946

Archer, William Harold	White Plains, N. Y.
A.B., Fordham, 1943	
Arden, Howard Anthony	New York City
B.S., Fordham, 1943	
Ballin, Bert	New York City
A.B., Oberlin, 1943	
Cali, Vincent	New York City
B.S., College of the City of New York, 1943	

Shapiro, Robert Leonard	Springfield, Mass.	Heaphy, Charles Francis	Norwalk, Conn.
Vermont		Fordham	
Smith, Robert Frederick	Manhasset, N. Y.	Heyen, Aloys Diedrich	Lynbrook, N. Y.
A.B., Holy Cross, 1943		Franklin & Marshall	
Sommer, Gordon Alexander	Utica, N. Y.	Hicks, Hugh Francis	Baltimore, Md.
B.S., Idaho, 1940		Loyola	
Columbia Medical School		Maryland	
Stirling, Martin Theodore	Brooklyn, N. Y.	Hoelzer, Robert Frederick	Hollis, N. Y.
A.B., Brooklyn, 1943		Colgate	
Stone, Melvin Joseph	Dorchester, Mass.	Hosiosky, Ellen N.	New York City
B.S., Tufts, 1943		D.M.D., Basle (Switzerland), 1935	
Valinoti, Joseph Robert	Brooklyn, N. Y.	Jaxheimer, David Paul	Freeport, N. Y.
Fordham		Muhlenberg	
Weissman, Bertram	New York City	Jurka, Charles Edward	Chappaqua, N. Y.
College of the City of New York		Hamilton	
Winter, Lester Weiss	New York City	Kafka, Betty	Brooklyn, N. Y.
B.S., College of the City of New York, 1929		A.B., Brooklyn, 1943	
A.M., New York University, 1939		Kelley, Edward Joseph, Jr.	Norwalk, Conn.
Wishengrad, Elaine Roslyn	New York City	Fordham	
Brooklyn		Kovarsky, Leonard	Passaic, N. J.
Illinois		Ohio	
Wuthenow, Albert Eugene	New York University		
Jackson Heights, N. Y.		Lane, John O'Gorman, Jr.	Forest Hills, N. Y.
Fordham		Columbia	
Zachinsky, Leo	New York City	Levine, Wilfred	New York City
A.B., New York University, 1942		New York University	
Zingesser, Maurice Roy	New York City	Lubojka, Edward Stephen	New York City
A.B., New York University, 1942		Fordham	
		Lucca, John James	Brooklyn, N. Y.
		A.B., New York University, 1941	
		McGann, Donald Michael	Staten Island, N. Y.
Armao, Thomas Anthony	Brooklyn, N. Y.	A.B., St. Peter's (N. J.), 1943	
Manhattan		Murray, John Joseph	New York City
Atherley, Leonard Frederick	New York City	Fordham	
B.S., Long Island, 1942		Nicoletti, Leonard John	Weehawken, N. J.
Breheny, John Martin	New York City	A.B., Columbia, 1943	
Fordham		Oberman, Philip	New York City
D'Andrea, Anthony Louis	New York City	New York University	
B.S., Manhattan, 1939		O'Malley, Benedict Bernard	New York City
Derevlany, Michael John	Whitestone, N. Y.	A.B., Fordham, 1943	
¹ Senior in Columbia		Portale, Joseph Sebastian	Brooklyn, N. Y.
D'Errico, Louis John	Flushing, N. Y.	Villanova	
¹ Senior in Columbia		Rackson, Chester Bert	Elmhurst, N. Y.
Ferber, Irwin	New York City	Queens	
New York University		Colgate	
Field, Jesse Waldron	New York City	Raebeck, William, Jr.	Belle Harbor, N. Y.
A.B., Gettysburg, 1936		Colgate	
Fitz-Gibbon, Francis John	Holyoke, Mass.	Remnick, Herbert Stanley	Paterson, N. J.
Providence		New York University	
Fletcher, Roland Anderson	Mt. Vernon, N. Y.	Rifkin, Irving	Yonkers, N. Y.
Amherst		A.B., New York University, 1943	
Yale		Russell, Raymond Homer	Ilion, N. Y.
Galgano, Frank Joseph	New York City	Union	
B.S., Manhattan, 1944		Rypkema, John Alfred	Lodi, N. J.
Gallagher, Joseph John	Brooklyn, N. Y.	A.B., Calvin, 1937	
¹ Senior in Columbia		Salem, James Joseph	Brooklyn, N. Y.
Golub, Leo Joseph	New York City	Fordham	
A.B., Columbia, 1943		Santeramo, Eugene Frank	Jamaica, N. Y.
Halperin, Arnold	New York City	Queens	
New York University		Scheiner, Herman Isaac	New York City
Hayward, Donald Edwin, Jr.	Brooklyn, N. Y.	New York University	
New York University			

¹ Undergraduate students in Columbia University exercising professional option in the School of Dental and Oral Surgery.

Shapiro, Sidney	New York City	Gerzog, Bertram Emanuel	Brooklyn, N. Y.
Hofstra		A.B., Columbia, 1939	
New York University		D.D.S., Columbia, 1942	
Slagle, Charles Joseph	Port Chester, N. Y.	Harris, Harold Robert	Yonkers, N. Y.
New York University		D.D.S., New York University, 1936	
Stuart, Robert Sterling	Portland, Maine	Lefkowitz, Norman	New York City
Bowdoin		A.B., New York University, 1935	
Telsey, Daubert	Long Island City, N. Y.	D.D.S., Columbia, 1939	
New York University		Mossberg, David	New York City
Thomson, Joseph John Clayton		D.D.S., Pennsylvania, 1934	
	North Bergen, N. J.	Newman, Herbert Paul	West New York, N. J.
St. Peter's (N. J.)		D.D.S., Maryland, 1934	
Walsh, Robert Francis	Jamaica, N. Y.	Salutsky, David Marshall	Syracuse, N. Y.
Fordham		D.D.S., Maryland, 1942	
		Sheldon, Joseph Alfred	Closter, N. J.
		D.D.S., Louisville, 1933	

POSTGRADUATE STUDENTS
CANDIDATES FOR THE CERTIFICATE OF
PROFICIENCY

Orthodontics

Berry, Morris Matthew	Atlantic City, N. J.
D.D.S., Temple, 1931	
Díaz Zayas-Bazan, Juan	Camaguey, Cuba
D.D.S., Havana, 1943	
Erdreich, Ulysses	Brooklyn, N. Y.
B.S., Columbia, 1937	
D.D.S., Columbia, 1941	

SUMMARY

Graduates—December 23, 1943.....	50
Fourth Year—September, 1944.....	51
Third Year—June, 1945.....	46
Second Year—March, 1946.....	48
First Year—December, 1946.....	50
Candidates for the certificate of proficiency..	10
Total.....	255

CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for the year 1944-45 may be obtained from the Secretary of the University.

1944

July	3	Monday, to July 16, inclusive. Summer vacation.
August	1	Tuesday. Last day for filing applications for D.D.S. degree to be conferred in September.
August	28	Monday, to September 3, Sunday, inclusive. Vacation.
September	21	Thursday, to September 30, Saturday, inclusive. Final examination period for all dental students.
¹ September	30	Saturday. Conferring of M.D. and D.D.S. degrees.
October	2	Monday, to October 4, Wednesday. Registration for all dental students.
October	2	Monday, and October 3, Tuesday. Registration for applicants for the certificate of proficiency.
October	4	Wednesday. Classes begin for applicants for the certificate of proficiency.
October	5	Thursday. New academic year begins for all dental students.
November	30	Thursday. Thanksgiving Day. Holiday.
December	25	Monday, to December 31, Sunday, inclusive. Christmas holidays.

1945

January	1	Monday. Second Trimester begins for sophomores, juniors, and seniors.
February	12	Monday, to February 14, Wednesday, inclusive. Registration for all dental students.
February	12	Monday. Alumni Day. Not a holiday.
March	19	Monday. Third Trimester begins for sophomores, juniors, and seniors.
March	30	Friday. Good Friday. Holiday.
April	2	Monday, and April 3, Tuesday. Registration for applicants for the certificate of proficiency.
April	16	Monday. Last day for filing applications for D.D.S. degree to be conferred in June.
June	7	Thursday, to June 16, Saturday, inclusive. Final examination period.
¹ June	14	Thursday. Conferring of M.D. and D.D.S. degrees.
June	18	Monday, to June 30, Saturday, inclusive. Summer vacation.
July	2	Monday, to July 4, Wednesday, inclusive. Registration for dental students.
July	5	Thursday. New academic year begins for dental students.

¹ Dates for conferring of degrees are tentative.

1944							1945							1945						
JULY							JANUARY							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	.....	.....	.....	1	.....	1	2	3	4	5	6	1	2	3	4	5	6	7
2	3	4	5	6	7	8	7	8	9	10	11	12	13	8	9	10	11	12	13	14
9	10	11	12	13	14	15	14	15	16	17	18	19	20	15	16	17	18	19	20	21
16	17	18	19	20	21	22	21	22	23	24	25	26	27	22	23	24	25	26	27	28
23	24	25	26	27	28	29	28	29	30	31	.....	.....	.....	29	30	31	.....	.....	.....	.....
30	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AUGUST							FEBRUARY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	1	2	3	4	5	.....	.....	.....	.....	1	2	3	.....	.....	.....	1	2	3	4
6	7	8	9	10	11	12	4	5	6	7	8	9	10	5	6	7	8	9	10	11
13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18
20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25
27	28	29	30	31	.....	.....	25	26	27	28	.....	.....	.....	26	27	28	29	30	31	.....
SEPTEMBER							MARCH							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	2	3	.....	.....	.....	.....	.....	1
3	4	5	6	7	8	9	4	5	6	7	8	9	10	2	3	4	5	6	7	8
10	11	12	13	14	15	16	11	12	13	14	15	16	17	9	10	11	12	13	14	15
17	18	19	20	21	22	23	18	19	20	21	22	23	24	16	17	18	19	20	21	22
24	25	26	27	28	29	30	25	26	27	28	29	30	31	23	24	25	26	27	28	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	.....	.....	.....
OCTOBER							APRIL							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	.....	1	2	3	4	5	6
8	9	10	11	12	13	14	8	9	10	11	12	13	14	7	8	9	10	11	12	13
15	16	17	18	19	20	21	15	16	17	18	19	20	21	14	15	16	17	18	19	20
22	23	24	25	26	27	28	22	23	24	25	26	27	28	21	22	23	24	25	26	27
29	30	31	.....	.....	.....	.....	29	30	.....	.....	.....	.....	.....	28	29	30	31	.....	.....	.....
NOVEMBER							MAY							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	1	2	3	4	.....	.....	1	2	3	4	5	.....	.....	.....	.....	1	2	3
5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10
12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17
19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24
26	27	28	29	30	.....	.....	27	28	29	30	31	.....	.....	25	26	27	28	29	30	.....
DECEMBER							JUNE							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	.....	.....	1
3	4	5	6	7	8	9	3	4	5	6	7	8	9	2	3	4	5	6	7	8
10	11	12	13	14	15	16	10	11	12	13	14	15	16	9	10	11	12	13	14	15
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31	30	31

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Columbia University

BULLETIN OF INFORMATION

Forty-fifth Series, No. 31

June 30, 1945

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY



1945-1946

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Forty-fifth Series, No. 31

June 30, 1945

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These include the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools and of certain Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 10,000—1945.

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All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3-2500.

PUBLISHED FOR THE UNIVERSITY BY
COLUMBIA UNIVERSITY PRESS

SUPPLEMENT TO THE ANNOUNCEMENT
of the
SCHOOL OF DENTAL AND ORAL SURGERY
of the Faculty of Medicine
of
COLUMBIA UNIVERSITY
1945-46

Dentistry 421 - General Restorative Dentistry Technic

SUPPLEMENT TO THE ANNOUNCEMENT
of the
SCHOOL OF DENTAL AND ORAL SURGERY
of the Faculty of Medicine
of
COLUMBIA UNIVERSITY
1945-46

Dentistry 421 - General Restorative Dentistry Technic
Drs. Carl Oman, Gilbert P. Smith and staffs.
Full time. Daily 9:00 a.m. - 4:30 p.m.
Monday through Friday, June 17th to August
16th, inclusive.
Fee \$600.00

This course is a required technic course in operative, crown and bridge, and prosthetic dentistry. (See Page 18 Combined Courses in Dentistry and Medicine). It will provide an opportunity for practitioners of medicine who have been accepted as students for the regular undergraduate dental course, to obtain the technical experience which will enable them to enter the junior class. Instruments, instrument case rental and engine rental are required.

March 10, 1948

Bion R. East
BION R. EAST, D.D.S.
Associate Dean

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1945-1946

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
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¹ ELIZABETH E. PAINTER, Ph.D.	<i>Instructor in Physiology</i>
MORTIMER A. ROTHENBERG, A.B., M.S.	<i>Assistant in Biochemistry</i>
FRANCIS J. W. ROUGHTON, B.A., Ph.D., F.R.S. . .	<i>Research Associate in Physiology</i>
BENJAMIN SALZER, M.D.	<i>Instructor in Neurology</i>
LOUIS SCHORR, D.D.S.	<i>Special Lecturer in Dentistry</i> [Prosthetics]
HERBERT F. SILVERS, B.S., D.D.S.	<i>Research Assistant</i> [Diagnosis]
WILLIAM HERMAN SILVERSTEIN, D.D.S.	<i>Assistant in Dentistry</i> [Operative]
¹ CLIFFORD L. SPINGARN, A.B., M.D.	<i>Instructor in Pharmacology</i>
GEORGE STEIN, M.D., D.M.D.	<i>Research Assistant</i> [Diagnosis]
FERDINAND A. STEWART, JR., A.B., D.D.S.	<i>Instructor in Dentistry</i> [Oral Surgery]
¹ BARBARA B. STIMSON, A.B., M.D., Med.Sc.D.	<i>Associate in Surgery</i>
FRANCES AGNES STOLL, R.D.H., B.S.	<i>Instructor in Dentistry</i> [Courses for Dental Hygienists]
HARRY STRUSSER, D.D.S.	<i>Special Lecturer in Dentistry</i> [Courses for Dental Hygienists]
BENJAMIN TENENBAUM, B.S., D.D.S.	<i>Research Assistant</i> [Periodontology]
BERNERD O. A. THOMAS, M.S., D.D.S.	<i>Instructor in Dentistry</i> [Oral Histology]
NATALIA TUPIKOVA, Ph.B.	<i>Assistant in Pharmacology</i>
WILLIAM W. WALCOTT, A.B., Ph.D.	<i>Instructor in Physiology</i>
GENEVA HASTINGS WALLS, R.D.H.	<i>Instructor in Dentistry</i> [Courses for Dental Hygienists]
GLENN H. WHITSON, D.D.S.	<i>Assistant in Dentistry</i> [Orthodontics]
JACOB M. WISAN, D.D.S., M.S.P.H.	<i>Lecturer in Public Health Practice</i>
¹ WILLIAM CARL WOHLFARTH, JR., Ph.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]
FREDERICK F. YONKMAN, M.D.	<i>Lecturer in Pharmacology</i>

¹ On leave 1945-1946.

CLINICAL ASSISTANTS

JUNIUS B. AGNELLI, B.S., D.D.S.	BENJAMIN MAHLER, D.D.S.
JOHN J. DOLCE, B.S., D.D.S.	ALVIN S. NATHAN, B.S., A.M., D.D.S.
HENRY ELLISON, B.S., D.D.S., M.S.P.H.	STANLEY A. NIEF, A.B., D.D.S.
JACOB FEINMAN, B.S., D.D.S.	WILBUR PREZZANO, B.S., D.D.S.
LEONARD HIRSCHFELD, A.B., D.D.S.	LOUIS SAPORITO, D.D.S.
HAROLD C. KILPATRICK, D.D.S.	PAUL C. SEXAUER, B.S., D.D.S.
BERTRAM KLATSKIN, A.B., D.D.S.	WALTER W. STEVENS, D.D.S.
LEONARD E. KOENIG, A.B., D.D.S.	WILLIAM A. THEMANN, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

ALBIN R. SEIDEL, D.M.D., *Director**Attending Dental Surgeons*

ADOLPH BERGER, D.D.S.	HAROLD J. LEONARD, A.B., D.D.S.
ISADOR HIRSCHFELD, D.D.S.	FRANCIS S. McCAFFREY, B.S., D.D.S.
HOUGHTON HOLLIDAY, A.B., D.D.S.	ALBIN R. SEIDEL, D.M.D.

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.	LEWIS R. STOWE, D.D.S.
JOSEPH SCHROFF, B.S., M.D., D.D.S.	DANIEL E. ZISKIN, D.D.S.

Assisting Attending Dental Surgeons

WILLIAM W. BAADÉ, D.D.S.	¹ ROBERT W. NORTHROP, D.D.S.
FRANK E. BEUBE, L.D.S., D.D.S.	

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, B.S., M.D., D.D.S.	<i>Attending Oral Surgeon</i>
DOUGLAS B. PARKER, M.D., D.D.S.	<i>Assistant Attending Oral Surgeon</i>

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Provost of the University</i>
HENRY McA. SCHLEY, B.S.	<i>Comptroller</i>
PHILIP M. HAYDEN, A.M.	<i>Secretary of the University</i>
FRANK H. BOWLES, A.M.	<i>Director of University Admissions</i>
BERNARD P. IRELAND, A.M.	<i>Assistant Director of University Admissions</i>
CARL M. WHITE, Ph.D.	<i>Director of Libraries</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
W. EMERSON GENTZLER, A.M.	<i>Bursar of the University</i>
FREDERICK MILLER, C.E.	<i>Director of Buildings and Grounds</i>

¹ On leave 1945-1946.

REV. STEPHEN FIELDING BAYNE, JR., S.T.M.	<i>Chaplain of the University</i>
RALPH J. FUREY, A.M.	<i>Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>
THOMAS A. MCGOEY, M.S.	<i>Director of University Residence Halls</i>
MARGARET BARNARD PICKEL, Ph.D.	<i>Adviser to Women Graduate Students and Head of Johnson Hall</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>
SEYMOUR ROBB, A.B. in L.S.	<i>Medical Librarian</i>



ENTRANCE TO THE SCHOOL OF MEDICINE AND THE
SCHOOL OF DENTAL AND ORAL SURGERY

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students, the Faculties of the two schools have been merged as of July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dental and Oral Surgery, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which the majority are members of the School of Dental and Oral Surgery, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery. During the national emergency the School will be on an accelerated program which, without changing the content of the course, will permit the student to graduate in three calendar years.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year. During the national emergency, it is planned to issue diplomas at periods of approximately nine months, as each class completes the requirements.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school may, for reasons of weight, grant a leave of absence to a student in good standing.

When entry into the armed service takes place after the opening of any session, students should consult the Registrar for information as to special adjustment of fees and credits.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in the Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 125,000 volumes and about 10,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. A trained library staff provides specialized services to meet the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. The library has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,200 current journals, and near by are shelved files of reviewing, indexing, and abstracting services and a selection of the more important journals. All other journals are in the stacks. A special alcove contains the latest available literature relating to war medicine.

University Libraries. The Libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation. The University Medical Officer, Dr. W. H. McCastline, has supervision of all matters affecting the health of the student body.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, 500 Riverside Drive, is a privately endowed residence for students from foreign lands and a limited number of American students. It accommodates 175 women and 325 men and contains a restaurant and social rooms.

Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive, New York 27, N. Y.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the campus entrance, are the offices of the Chaplain of the University and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on B floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$.75, clothbound. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which

must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate

of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

SUMMER SESSION

In 1945 there will be no separate Summer Session, second, third, and fourth year classes continuing throughout the summer with a vacation period in the month of June.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the completion of at least four years of high school work, including certain specific subjects, the attainment of at least eighteen years of age, and the qualifying certificate obtained from the Department of Education of the State of New York. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. For full information address the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1945-1946 short refresher courses will be offered in various subjects in accordance with demand. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Postgraduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half-time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below. The requirements for admission include graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country.

The course of study for the certificate of proficiency includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery. The fee for the year's work

leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized fourteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health for dentists is offered. The course is open to graduate dentists. For information regarding course content, registration, and fees apply to the School of Public Health, 600 West 168th Street, New York 32, N. Y.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00

for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees. Tuition fees for men in the Navy Collegiate Training Program are paid by the government.

The following fees are prescribed for dental students:

(a) University Fee

For all students for each session, or for any part thereof \$10.00

(b) Tuition Fee

For the course in dentistry for one half an academic year (or equivalent)
in the case of a student enrolled for the full course 250.00
For students not enrolled for the full course, fees are to be assessed by the
Registrar as provided by the University Statutes.

(c) Fee for Application

1. For a degree 20.00
2. For a certificate 10.00

(d) Privileges

1. Late registration or late application for a degree or certificate or for defi-
ciency or special examinations 3.00
2. Deficiency or special examinations 3.00
3. Renewal of application for any degree or certificate 1.00

(e) Student Activities (payable annually)

1. For all students, *Columbia Dental Review* 2.00
2. For sophomores, juniors, and seniors, junior membership in the American
Dental Association 3.00
3. Student activities50

(f) Case Rental

For sophomores, juniors, and seniors, rental for one instrument case, for
each semester 2.50

(g) Rebates

1. The University fee and the fee for application for any degree or certificate
shall not be subject to rebate.
2. If a student withdraws from the School a partial return of tuition fee may
be authorized by the Registrar.
When a rebate is allowed for the discontinuance of courses or withdrawal
from the University, such rebate will be reckoned from the day upon which
the Registrar receives notice from the student.

(h) Deposit 25.00

Required of each student to cover material and breakage in the laboratories
and clinic. The deposit for breakage includes apparatus to replace broken
articles or articles not returned at the close of the course; any chemicals not
in the kit of chemicals supplied to each student, or additional quantities of
chemicals beyond this allowance; and service in washing apparatus or work
by a mechanic. Refund of any balance will be made upon the completion of
the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
Oil immersion lens	

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp. During the national emergency it is possible to rent microscopes, from the University Book Store at a rental fee of \$20 for an academic year.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1944-1945 and can be accepted as applicable in general for the year 1945-1946 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$555.00	\$530.00
Room	235.00	175.00
Board	350.00	325.00
Books	80.00	40.00
Instruments (see below)	200.00	200.00
Laundry	50.00	36.00
	<hr/> \$1,470.00	<hr/> \$1,306.00

The approximate cost of instruments for the four-year course is \$650 plus the cost of the microscope. It may be necessary to rent some instruments from the University. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

The government lends books and instruments to men in the Navy Collegiate Training Program.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement

- a) Unconditionally
- b) Conditionally

II. Recommended for readmission to the same class

III. Recommended neither for advancement nor for readmission to the same class

- a) Because of failure
- b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

NATIONAL BOARD OF DENTAL EXAMINERS

The National Board of Dental Examiners provides an examination in the theory of the science of dentistry. The clinical examination, in every instance, is reserved for the state examining board. A certificate of qualification will be issued to each candidate approved by the National Board when the candidate has been in actual practice for three years after his graduation and has submitted new and satisfactory evidence of his moral and ethical standards of professional conduct. To date the following states have dental laws permitting their licensing authorities to recognize the certifi-

cate of qualification of the National Board of Dental Examiners: Alabama, Connecticut, Delaware, Georgia, Indiana, Iowa, Illinois, Kansas, Maine, Minnesota, Nebraska, Oklahoma, Pennsylvania, South Dakota, and Virginia.

Only such undergraduates as may be certified by their respective deans shall be eligible to the National Board examinations. The examinations are held in two separate parts. Part I, which is open to undergraduate candidates who have met the predental requirements and have successfully completed the first two years of work in an approved dental school, consists of a written examination in the following sciences: anatomy, general and dental; bacteriology; physiology; general pathology; histology, general and dental, including embryology; physiological chemistry and metallurgy. Part II, which is open to undergraduate candidates who have passed Part I and have successfully completed the senior year or are eligible for the final examinations of the senior year in an approved dental school, consists of a written examination in each of the following subjects: operative dentistry; materia medica and therapeutics; prosthetic dentistry, including partial and full denture, fixed and removable bridgework, and crown construction; oral and dental surgery; orthodontia, radiology, jurisprudence and ethics; oral pathology and anesthesia. Usually the examinations are given twice a year, in January and May. Application should be made to GORDON L. TEALL, D.D.S., Secretary of the National Board of Dental Examiners, Hiawatha, Kansas.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student

qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examination or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Grover C. Beckwith-Ewell.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award, the income from \$1,000, is given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual certificate award for proficiency in dentistry for children has been established by the *Dental Columbian* of the Class of 1939.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 percent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which sophomores, juniors, and seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE DENTAL ABSTRACT SOCIETY

The Dental Abstract Society is open to all students and staff members who are interested in current dental literature. Monthly meetings are held, at which abstracts of selected articles from current periodicals are read and discussed.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF
DENTAL AND ORAL SURGERY

President, LOUIS I. ABELSON.

Vice-President, MORRIS FIERSTEIN.

Secretary, WILLIAM GIBLIN.

Treasurer, SIDNEY RIESNER.

Editor, JOHN J. MAYERS.

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

<i>Subject</i>	<i>Trimester Credits</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FRESHMAN YEAR:				
Anatomy				
Embryology	2	20	...	20
Gross	15	60	262	322
Microscopic	8	38	126	164
Neuro	4	60	...	60
Oral	6	18	95	113
Biochemistry	8	35	105	140
Histology, oral	2	7	61	68
Physiology	10	56	148	204
	<hr/>			<hr/>
SOPHOMORE YEAR:	55			1,091
Bacteriology	7	40	90	130
Crown and bridge	4	10	85	95
Dental materials	2	...	40	40
Oral hygiene	2	20	...	20
Operative dentistry	9	20	220	240
Pathology	11	70	130	200
Periodontology	1	...	30	30
Pharmacology	6	50	30	80
Prosthetic dentistry	10	20	210	230
Psychopathology	1	10	...	10
Radiology	1	10	...	10
Surgery, oral	2	20	...	20
	<hr/>			<hr/>
JUNIOR YEAR:	56			1,105
Anatomy, applied	1	10	...	10
Crown and bridge				
Technic	6	10	105	115
Clinic	1	...	30	30
Porcelain	2	...	60	60
Applied occlusal dynamics	1	...	30	30
Diagnosis, dental	4	30	30	60
Operative dentistry	11	20	300	320
Orthodontics	5	20	75	95
Pathology, oral	4	20	60	80
Periodontology	1	...	30	30
Prosthetic dentistry	7	20	150	170
Public health	2	20	...	20
Radiology	1	...	30	30
Surgery, oral	2	10	30	40
Theory and practice	2	20	...	20
Therapeutics	1	10	...	10
	<hr/>			<hr/>
SENIOR YEAR:	51			1,110
Crown and bridge	6	10	150	160
Diagnosis, dental	1	...	30	30
Operative dentistry	13	20	330	350
Pedodontics	4	10	90	100
Periodontology	3	20	25	45
Practice of medicine	5	40	20	60
Prosthetic dentistry	6	10	150	160
Surgical prosthesis	1	...	30	30
Surgery, oral	4	40	60	100
Theory and practice	1	10	...	10
	<hr/>			<hr/>
Senior electives	44			1,045
Oral pathology . . . . .	...	15	...	15
Oral surgery . . . . .	...	30	...	30
Orthodontics . . . . .	...	...	30	30
Public health . . . . .	...	...	48	48

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of home work. For laboratory or clinical work it represents three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on page 27 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

Courses enclosed in brackets are not given in 1945-1946.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. Sophomore year. 4 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. Junior year. 6 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 206—Crown and bridge clinic. Junior year. 1 credit.

Clinical construction of elementary crown and bridgework.

Crown and Bridge 207—Porcelain technic. Junior year. 2 credits.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Junior year. 1 credit.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Not given in 1944-1945.

Crown and Bridge 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Senior year. 7 credits.

Clinical construction of crown and bridgework.

Crown and Bridge 212—Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

First given in 1944-1945.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal dys-harmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of *Diagnosis 212*.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 9 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 11 credits.

Lectures on the application of operative fundamentals to clinical practice. The technique of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 5 credits.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 243—Orthodontic elective. Senior year. No credit.

Clinical orthodontics. Offered to seniors who are eligible for electives.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 11 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 10 credits.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lecture and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental hygiene and environmental adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 2 credits.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit.

Lectures, readings, and discussions on topics relative to oral radiology.

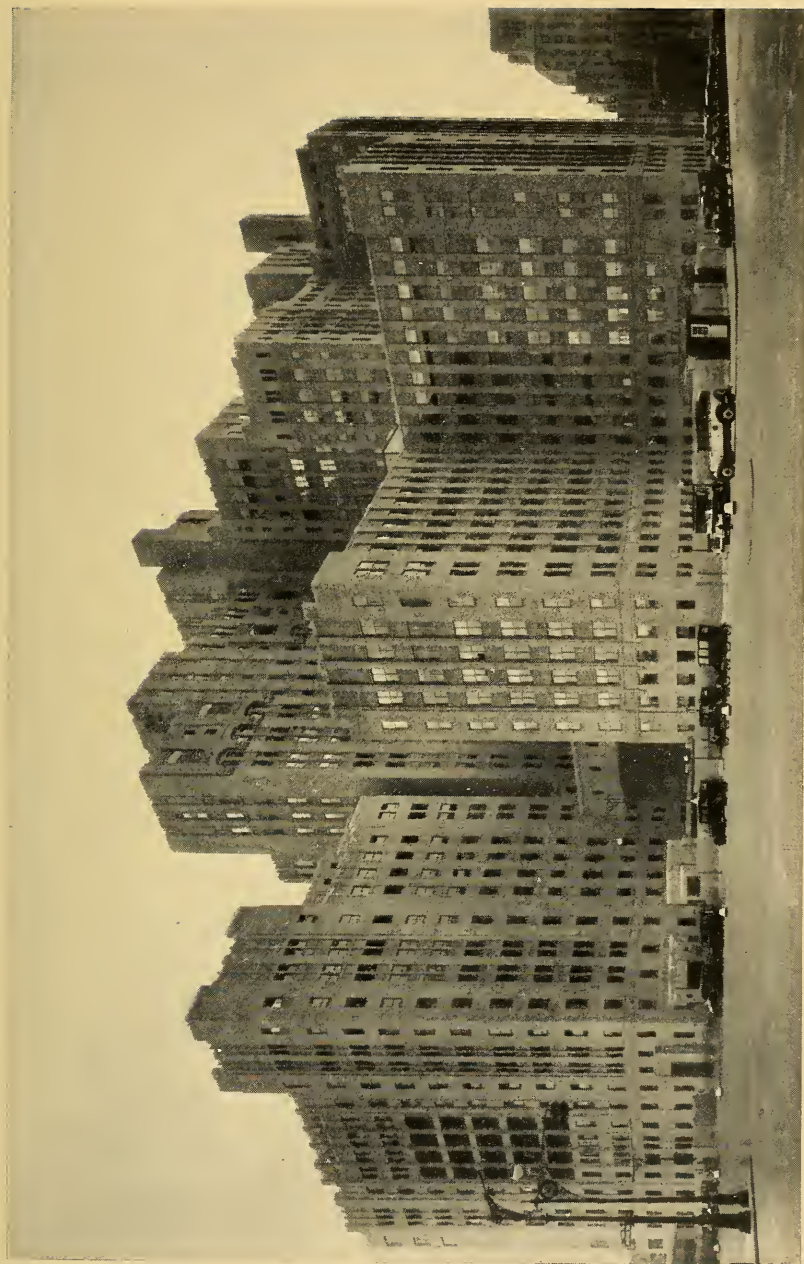
Radiology 267—Oral radiology practice. Junior year. 1 credit.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year. 2 credits.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 4 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in the removal of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective.

Presentation and demonstrations of oral pathological and maxillofacial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Junior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct and routine.

Theory and Practice 282—Dental jurisprudence. Junior year. 1 credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Senior year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 284—Senior thesis.

Each senior is required to present a thesis representing original reading, scientific research, or both, to be completed under the immediate supervision of Professor HOLLIDAY and with the help of an adviser in the field selected, and with the final approval of the Research Committee.

Theory and Practice 285—Comprehensive case. Junior and senior years.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Junior year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

Formerly *Pharmacology* 250

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Required: Gray, *Anatomy*, \$12.00; Rogers, *Dissecting Manual*, \$.75. Recommended but not required: Cunningham, *Manual of Practical Anatomy*, \$12.75 a set; Cunningham, *Textbook of Anatomy*, \$12.00; Piersol, *Human Anatomy*, \$10.00.

Applied anatomy. Required: Shapiro, *Applied Anatomy of the Head and Neck*, \$5.50.

Embryology. Required: Arey, *Developmental Anatomy*, \$6.75.

Microscopic anatomy. Required: Bailey, *Textbook of Histology* (11th ed.), \$6.00.

Neuroanatomy. Required: Strong and Elwyn, *Human Neuroanatomy*, \$6.00.

Oral anatomy. Required: Diamond, *Dental Anatomy* (2d revised ed.), \$4.50.

Oral histology and embryology. Required: Bodecker, *Fundamentals of Dental Histology and Embryology* (Columbia ed.), \$4.00; *Laboratory Manual and Drawing Notebook, Oral Histology and Embryology*, \$.75.

BACTERIOLOGY. Required: Jordan and Burrows, *Textbook of Bacteriology*, \$6.00.

Recommended but not required: Gordon, et al, *Dental Science and Dental Art*, \$9.50; Topley and Wilson, *Principles of Bacteriology and Immunity* (2d ed.), \$12.00.

BIOCHEMISTRY. Required: Harrow, *Textbook of Biochemistry* (3d ed.), \$4.00; Karshan, *Laboratory Manual*, \$.75. Recommended but not required: Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$8.00.

CROWN AND BRIDGE. Required: Tylman, *Crown and Bridge Prosthesis*, \$10.00; Hoyt et al, *Crown and Bridge Syllabus*, \$.75. Recommended but not required: Le Gro, *Ceramics in Dentistry*, \$7.50; Felcher, *Porcelain in Dentistry*, \$9.00.

DENTAL MATERIALS. Required: *Physical Properties of Dental Materials*, Bureau of Standards Circular C 433, United States Government Printing Office, \$.75. Recommended but not required: Skinner, *The Science of Dental Materials* (2d ed.), \$4.75.

DIAGNOSIS. Required: *Differential Diagnosis of Mouth Diseases*, \$4.00; *Handbook of Pulp Symptomatology and Diagnosis*, \$1.15. Mimeographed material furnished by the Department.

MEDICINE. Required: Yater, *Fundamentals of Internal Medicine*, \$10.00. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.50; Comroe, Collins, and Crane, *Internal Medicine in Dental Practice*, \$5.50; Meakins, *Practice of Medicine*, \$10.00.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, Vols. II and III, \$5.50 each. Mimeographed notes are also furnished by the Department.

ORAL HYGIENE. Required: Gordon, *Dental Science and Art*, \$9.50.

ORTHODONTICS. Recommended for collateral reading: Salzman, *Principles of Orthodontics*, \$10.00; Strang, *Textbook of Orthodontia* (2d ed.), \$10.00; Dewey and Anderson, *Practical Orthodontics* (6th ed.), \$10.00; McCoy, *Applied Orthodontia* (5th ed.), \$4.50.

PATHOLOGY. Required: W. A. D. Anderson, *Synopsis of Pathology*, \$6.00.

ORAL PATHOLOGY. Required: Cahn, *Pathology of the Oral Cavity*, \$5.50.

PEDODONTICS. Required: McBride, *Juvenile Dentistry*, \$6.50.

PERIODONTOLOGY. Suggested but not required: Goldman, *Periodontia*; Hirschfeld, *The Toothbrush*, \$7.50; Merritt, *Periodontal Disease*, \$3.75.

PHARMACOLOGY. Required: Goodman and Gillman, *Pharmacological Basis of Therapeutics*, \$12.50. Recommended but not required: *Accepted Dental Remedies*, \$1.00.

PHYSIOLOGY. Required: Bard, MacLeod, *Physiology in Modern Medicine*, \$10.00; *Laboratory Manual*, \$75.

PROSTHETIC DENTISTRY. Required: Anthony, *American Textbook of Prosthetic Dentistry*, \$11.00; Swenson, *Complete Dentures*, \$10.00; Young et al, *Syllabus*, \$1.60. Recommended but not required: Nichols, *Prosthetic Dentistry*, \$12.50.

PSYCHIATRY. Recommended but not required: Henderson and Gillespie, *Textbook on Psychiatry*, \$7.00; Hinsie, *Visual Outline of Psychiatry*, \$2.00; Noyes, *Modern Clinical Psychiatry*, \$5.00; Solomon and Yakolev, *Manual of Military Neuropsychiatry*, \$6.00; Strecker, *Fundamentals of Psychiatry*, \$3.00; Strecker and Ebaugh, *Practical Clinical Psychiatry*, \$5.00; Weiss and English, *Psychosomatic Medicine*, \$8.00.

RADIOLOGY. Required: Ennis, *Dental Roentgenology* (3d ed.), \$6.50.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Homans, *Textbook of Surgery*, \$8.00. Recommended but not required: Berger, *Principles and Technique of the Removal of Teeth*, \$7.50; Flagg, *Art of Anesthesia*, \$5.00; Parker, *Synopsis of Traumatic Injuries of the Face and Jaws*, \$4.50; Stout, *Human Cancer*, \$10.00.

DICTIONARY. Required: Stedman, *Medical Dictionary*, \$7.50. Recommended but not required: W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*, \$6.50. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50.

REGISTER OF STUDENTS

GRADUATES—CLASS OF SEPTEMBER 28, 1944

Amontree, Edward Joshua	New York City	Lavori, William Philip	Staten Island, N. Y.
A.B., Columbia, 1941		B.S., College of the City of New York, 1941	
Bershadsky, Sol Charles	Bayonne, N. J.	Leonard, William Francis	Mt. Vernon, N. Y.
A.B., New York University, 1940		Oberlin	
Bibbo, James Vincent, Jr.	New York City	Levinson, Stanley Bernard	New York City
A.B., Syracuse, 1941		A.B., New York University, 1940	
Caulfield, Bernard Morris	Bayside, N.Y.	McKeon, Raymond Xavier	New York City
B.S., St. John's (N. Y.), 1941		B.S., Manhattan, 1939	
Citron, Sherman Ross	Brooklyn, N.Y.	Manners, Philip	New York City
A.B., Columbia, 1939		A.B., New York University, 1941	
A.M., Columbia, 1940		Monahan, Leonard John	New York City
Cole, Robert Merton	Tarrytown, N. Y.	B.S., Manhattan, 1940	
A.B., Columbia, 1942		Morris, Robert Irving	Bangor, Maine
Conte, Joseph Frank	Tuckahoe, N. Y.	A.B., Maine, 1941	
B.S., Manhattan, 1941		Muccia, Daniel Arthur	New York City
Cornell, Peter Joseph	New York City	A.B., Columbia, 1941	
B.S., St. John's (N. Y.), 1941		Natelson, Estelle Marion	Brooklyn, N. Y.
DeLuke, Dominick Joseph	Schenectady, N. Y.	New York University	
A.B., Vanderbilt, 1941		Nesse, Gerald Jack	New York City
Dene, Ralph William	Brooklyn, N. Y.	A.B., New York University, 1940	
A.B., Brooklyn, 1941		M.S., New York University, 1941	
Desmond, Jeremiah Joseph	New Haven, Conn.	Orfanos, George Peter	Long Island City, N. Y.
B.S., Fordham, 1939		Columbia	
Dorsey, John Henry	Portland, Maine	Quast, William Wentworth, Jr.	
B.S., Bowdoin, 1941		Columbia	West Hempstead, N. Y.
Fookson, George	New York City	Rawitt, Eugene	New York City
A.B., New York University, 1941		B.S., St. Peter's Col. (N. J.), 1938	
Fusco, Fulvio Francis	New York City	A.M., New York University, 1939	
B.S., College of the City of New York, 1940		Rendich, Henry Joseph, Jr.	
Georgiade, Nicholas George	Jamaica, N. Y.	Rockville Centre, N. Y.	
Fordham		B.S., St. Peter's Col. (N. J.), 1940	
Girling, George Wesley	W. Haverstraw, N. Y.	Rogers, Jerome Alan	New York City
B.S., Manhattan, 1941		B.S., College of the City of New York, 1941	
Gordon, Jacob	Brooklyn, N. Y.	Sall, Hymie David	Syracuse, N. Y.
Brooklyn		A.B., Syracuse, 1940	
Gormley, Eugene Joseph	New York City	Salzman, Leonard	New York City
B.S., Manhattan, 1940		B.S., College of the City of New York, 1941	
Greene, George William, Jr.	Brooklyn, N. Y.	Sirna, Lawrence Edward	New York City
B.S., Notre Dame, 1941		B.S., St. John's (N. Y.), 1941	
Herlands, Robert Edward	New York City	Slusky, Melvin	Brooklyn, N. Y.
A.B., Columbia, 1941		A.B., New York University, 1941	
Holliday, Paul Houghton	Tenafly, N. J.	Smith, David Joseph	Brooklyn, N. Y.
B.S., Bowdoin, 1941		New York University	
Hribar, George Martin	Elmhurst, N. Y.	Smith, George Allen, Jr.	Port Chester, N. Y.
B.S., Mt. St. Mary's, 1940		A.B., Columbia, 1942	
Hyatt, John Wesley	Short Hills, N. J.	Sweeney, James Russel	Washington, D. C.
A.B., Columbia, 1940		A.B., Columbia, 1931	
Keneally, Francis Joseph	New York City	Thoma, Robert Frank	Lynbrook, N. Y.
A.B., Fordham, 1940		Pennsylvania	
Kornbluch, Frederick	New York City	New York University	
A.B., New York University, 1941		Wasserman, Bernard H.	Brooklyn, N. Y.
Lackey, Leon Agee	Kimball, W. Va.	A.B., Brooklyn, 1941	
A.B., Berca, 1941		Weiss, George Arthur	Brooklyn, N. Y.
		A.B., Brooklyn, 1941	

OCTOBER 5, 1944 TO JUNE 16, 1945

FOURTH YEAR—CLASS OF JUNE, 1945

Abelson, Jacob	New York City	Baer, Paul Nathan	Kew Gardens, N. Y.
B.S., College of the City of New York, 1941		A.B., Brooklyn, 1942	
Arnold, Herbert	New York City	Bartelstone, Herbert Jerome	New York City
A.B., New York University, 1942		B.S., College of the City of New York, 1942	
		Bell, Archie Harry	Elizabeth, N. J.
		A.B., Columbia, 1943	

Benfield, James Winston A.B., Syracuse, 1925	Hartsdale, N. Y.	Shwalb, Richard Abraham A.B., Columbia, 1943	Brooklyn, N. Y.
Blatman, Daniel Colby	Great Neck, N. Y.	Siegel, Fred Morris Union	Schenectady, N. Y.
Boscarelli, Ignazio Frank B.S., Manhattan, 1942	New York City	Steinberg, Charles B.S., College of the City of New York, 1941	New York City
Brown, William James Fordham	Brooklyn, N. Y.	Stella, Armand Matthew Monmouth Beach, N. Y.	
Cain, Edward Andrew B.S., Fordham, 1942	New York City	B.S., Manhattan, 1942	
Cohen, Meyer B.S., Rutgers, 1938	Elizabeth, N. J.	Stern, Leo, Jr. A.B., Columbia, 1943	New York City
Colaneri, Joseph Nicholas A.B., Columbia, 1941	New York City	Stone, Arnold Queens	Flushing, N. Y.
Conaty, Arnold Paul A.B., Brown, 1945	Hartsdale, N. Y.	Tolge, Reinhold Bruno Union	Schenectady, N. Y.
Daly, William Jerome A.B., Columbia, 1943	Brooklyn, N. Y.	Zeh, William George B.S., Long Island, 1942	Glendale, N. Y.
Di Salvo, Nicholas Armand B.S., College of the City of New York, 1942	New York City		
Durant, Robert Edward Boston College	New Bedford, Mass.		
Freeman, Morris A.B., New York University, 1942	New York City	Archer, William Harold A.B., Fordham, 1943	New York City
Friedman, Marvin A.B., New York University, 1940	New York City	Arden, Howard Anthony B.S., Fordham, 1943	New York City
M.S., New York University, 1942		Ballin, Bert A.B., Oberlin, 1943	New York City
Gattegno, Edgar A.B., New York University, 1942	New York City	Cali, Vincent B.S., College of the City of New York, 1943	New York City
Goodman, Robert A.B., New York University, 1942	New York City	Campbell, Paul Stine Redlands	Redlands, Calif.
Halbrecht, Irving Daniel A.B., New York University, 1942	Somerville, N. J.	Castiglia, Hannibal Louis Columbia	Astoria, N. Y.
Hogan, John Daniel B.S., Notre Dame, 1942	Highland Falls, N. Y.	Chnapko, Victor Peter B.S., Long Island, 1942	New York City
Horowitz, Mervin Bell B.S., College of the City of New York, 1942	New York City	Darling, Maus Vedder A.B., Johns Hopkins, 1936	Stamford, Conn.
Jacobs, William Ralph A.B., Brooklyn, 1942	Brooklyn, N. Y.	Della Rocca, Vincent Paul New York University	New York City
Kaplan, Benjamin Cornell	New York City	De Vito, Joseph John A.B., Columbia, 1943	Brooklyn, N. Y.
Largey, John Francis B.S., Niagara, 1942	New York City	Earnest, Franklin Arthur A.B., New York University, 1943	New York City
Lieberman, Julius B.S., College of the City of New York, 1934	New York City	Ellison, Solon Arthur B.S., College of the City of New York, 1942	New York City
M.S., College of the City of New York, 1940		Elvershofen, Walter Columbia	
Madden, Robert Francis Fordham	Lake Placid, N. Y.	Fitz-Gibbon, John Hamilton Providence	Holyoke, Mass.
Mandel, Irwin Daniel B.S., College of the City of New York, 1942	Brooklyn, N. Y.	Garber, Martin Aaron Providence	Providence, R. I.
Menasche, Salvatore A.B., Brooklyn, 1942	Brooklyn, N. Y.	Gladue, Wilfred Harold B.S., Rhode Island State, 1943	Woonsocket, R. I.
Miringoff, Aaron Yale B.S., College of the City of New York, 1941	New York City	Halpert, Wesley B.S., College of the City of New York, 1943	New York City
Mitchell, Joseph James B.S., St. John's (N. Y.), 1941	Brooklyn, N. Y.	Katz, Lester Edwin New York University	New York City
Mohr, Irving Ward A.B., New York University, 1942	New York City	Kotch, Raymond Leonard B.S., College of the City of New York, 1943	New York City
Morelli, Nicholas Francis A.B., Union, 1942	Catskill, N. Y.	Kutscher, Austin Harrison New York University	New York City
Oliveri, Gaspar Anthony B.S., St. John's (N. Y.), 1942	Brooklyn, N. Y.	McElroy, Joseph Raymond St. John's University	Brooklyn, N. Y.
Ostreicher, Herbert Paul A.B., Columbia, 1943	Jackson Heights, N. Y.	Mandel, Louis A.B., New York University, 1943	New York City
Sarkady, Lester Samuel A.B., New York University, 1942	Brooklyn, N. Y.	Minervini, George August A.B., Columbia, 1942	Yonkers, N. Y.
		Morris, Robert Darcy A.B., Fordham, 1943	Jackson Heights, N. Y.

Moss, Melvin Lionel	New York City	Galgano, Frank Joseph	New York City
A.B., New York University, 1942		B.S., Manhattan, 1944	
Olinger, Donald Sundell	Glen Ridge, N. J.	Gallagher, Joseph John	Brooklyn, N. Y.
Pennsylvania		Columbia	
Pane, John Thomas	New York City	Golub, Leo Joseph	New York City
B.S., Fordham, 1942		A.B., Columbia, 1943	
Piro, John Donald	New York City	Grether, Erda Sved (Mrs.)	New York City
Fordham		Russell Sage	
Rechter, Alfred	New York City	Wisconsin	
B.S., College of the City of New York, 1943		Halperin, Arnold	New York City
Schonberg, Leon	New York City	New York University	
B.S., College of the City of New York, 1944		Hayward, Donald Edwin, Jr.	Brooklyn, N. Y.
Schultz, Wilbert James, Jr.	New York City	New York University	
A.B., Hofstra, 1939		Heaphy, Charles Francis	Norwalk, Conn.
Schustak, Robert Leslie	Rockaway Beach, N. Y.	Fordham	
B.S., New York University, 1943		Heyen, Aloys Diedrich	Lynbrook, N. Y.
Shapiro, Robert Leonard	Springfield, Mass.	Franklin & Marshall	
Vermont		Hoelzer, Robert Frederick	Hollis, N. Y.
Smith, Roger Frederick	Manhasset, N. Y.	Colgate	
A.B., Holy Cross, 1943		Hosiosky, Ellen N.	New York City
Sommer, Gordon Alexander	Spokane, Wash.	D.M.D., Basle (Switzerland), 1935	
B.S., Idaho, 1940		Jaxheimer, David Paul	Freeport, N. Y.
Columbia Medical School		Muhlenberg	
Stirling, Martin Theodore	Brooklyn, N. Y.	Jurka, Charles Edward	Chappaqua, N. Y.
A.B., Brooklyn, 1943		Hamilton	
Stone, Melvin Joseph	Dorchester, Mass.	Kafka, Betty	Brooklyn, N. Y.
B.S., Tufts, 1943		A.B., Brooklyn, 1943	
Valinoti, Joseph Robert	Brooklyn, N. Y.	Kelley, Edward Joseph, Jr.	Norwalk, Conn.
Fordham		Fordham	
Weissman, Bertram	New York City	Kovarsky, Leonard	Passaic, N. J.
College of the City of New York		Ohio	
Winter, Lester Weiss	New York City	New York University	
B.S., College of the City of New York, 1929		Lane, John O'Gorman, Jr.	New York City
A.M., New York University, 1939		Columbia	
Wishengrad, Elaine Roslyn	New York City	Levin, Alfred W.	New York City
Brooklyn		New York University	
Illinois		Levine, Wilfred	New York City
Wuthenow, Albert Eugene	Jackson Heights, N. Y.	New York University	
Fordham		Luboj, Edward Stephen	New York City
Zachinsky, Leo	New York City	Fordham	
A.B., New York University, 1942		Lucca, John James	Brooklyn, N. Y.
Zingeser, Maurice Roy	New York City	A.B., New York University, 1941	
A.B., New York University, 1942		McGann, Donald Michael	New York City
		A.B., St. Peter's (N. J.), 1943	
		Murray, John Joseph	New York City
		Fordham	
		Nicoletti, Leonard John	Weehawken, N. J.
		A.B., Columbia, 1943	
		Oberman, Philip	New York City
		New York University	
		Portale, Joseph Sebastian	Brooklyn, N. Y.
		Villanova	
		Rackson, Chester Bert	Elmhurst, N. Y.
		B.S., Queens, 1944	
		Raebeck, William, Jr.	Belle Harbor, N. Y.
		Colgate	
		Remnick, Herbert Stanley	Paterson, N. J.
		New York University	
		Rifkin, Irving	Los Angeles, Calif.
		A.B., New York University, 1943	
		Russell, Raymond Homer	Ilion, N. Y.
		Union	
		Rypkema, John Alfred	Lodi, N. J.
		A.B., Calvin, 1937	
		Salem, James Joseph	Brooklyn, N. Y.
		Fordham	

SECOND YEAR—CLASS OF DECEMBER, 1946

Armao, Thomas Anthony	Brooklyn, N. Y.
Manhattan	
Breheny, John Martin	New York City
Fordham	
D'Andrea, Anthony Louis	New York City
B.S., Manhattan, 1939	
Derevlany, Michael John	Whitestone, N. Y.
A.B., Columbia, 1944	
D'Errico, Louis John	Flushing, N. Y.
A.B., Columbia, 1944	
Ferber, Irwin	New York City
New York University	
Field, Jesse Waldron	New York City
A.B., Gettysburg, 1936	
Fletcher, Roland Anderson	Mt. Vernon, N. Y.
Amherst	
Yale	

Santeramo, Eugene Frank	Jamaica, N. Y.	Haufe, Thomas Robert	New York City
Queens		Fordham	
Scheiner, Herman Isaac	New York City	Cornell	
New York University		Imarisio, John Joseph	New York City
Shapiro, Sidney	New York City	A.B., New York University, 1944	
Hofstra		Kantorowitz, Leo	Providence, R. I.
New York University		B.S., Providence, 1944	
Slagle, Charles Joseph	Port Chester, N. Y.	Klein, Harold Jacques	New York City
New York University		A.B., New York University, 1943	
Stuart, Robert Sterling	Portland, Maine	Klickstein, Melvin	Malden, Mass.
A.B., Bowdoin, 1944		Massachusetts State	
Telsey, Daubert	Long Island City, N. Y.	Trinity (Conn.)	
New York University		Korniewicz, John Alexander	Brooklyn, N. Y.
Thomson, Joseph John Clayton	North Bergen, N. J.	St. Francis College (N. Y.)	
		Holy Cross	
St. Peter's (N. J.)		Lazoff, Arthur	New York City
Walsh, Robert Francis	Jamaica, N. Y.	B.S., College of the City of New York, 1944	
Fordham		Lewis, Robert Mervin	Newark, N. J.
		Rutgers	
		Loeb, Morton Samuel	Jamaica, N. Y.
		Queens	

FIRST YEAR—CLASS OF SEPTEMBER, 1947

Arcabasso, John Bernard	New York City	Lorber, Mortimer	New York City
Ph.G., Columbia, 1939		New York University	
Arslan, Paul	New York City	Maillard, Gene Charles	Ridgewood, N. Y.
A.B., New York University, 1943		Fordham	
Auerbach, Gabriel Irving	New York City	New York University	
B.S., Massachusetts State, 1941		Mand, Stanley Mervin	Brooklyn, N. Y.
Auslander, Irwin Howard	Brooklyn, N. Y.	New York University	
New York University		Marmer, David	New York City
Baurmash, Harold Daniel	New York City	A.B., New York University, 1944	
New York University		Miller, Harold	New York City
Blanco-Dalmau, Luis	Rio Piedras, P.R.	B.S., Long Island, 1939	
University of Puerto Rico		M.S., New York University, 1942	
Blugerman, John Mark	Brooklyn, N. Y.	Pino, Rudolph Victor	Brooklyn, N. Y.
Columbia		B.S., Fordham, 1943	
Cacciola, Frank James	Jackson Heights, N. Y.	Prince, Ivyn Bittker	New York City
St. John's University		A.B., New York University, 1943	
Cava, Nicholas Joseph	Bethpage, N. Y.	Rebhun, Lionel Earl	New York City
Long Island		College of the City of New York	
Deesen, Kenneth Charles	Brooklyn, N. Y.	Robinson, Irwin Schnoll	Great Neck, N. Y.
Queens		B.S., College of the City of New York, 1944	
Massachusetts Institute of Technology		Rossi, Albert Onofrio	Huntington, N. Y.
Delasho, James William	Yonkers, N. Y.	A.B., Columbia, 1940	
B.S., Manhattan, 1943		Scrivani, Steven Silvio	Brooklyn, N. Y.
Disick, Donald	Brooklyn, N. Y.	Brooklyn	
Engel, Walter Frederick, Jr.	Brooklyn, N. Y.	Stein, Joseph Robert	New York City
Wesleyan		College of the City of New York	
Englander, Harold Robert	New York City	New York University	
College of the City of New York		Cornell University	
Washington Univ. (Mo.)		Yale University	
Friedman, Jay Wolfe	Hempstead, N. Y.	Stern, Eli Sheldon	New York City
North Carolina		New York University	
Giannattasio, Rudolph Camillo	Brooklyn, N. Y.	Columbia	
A.B., Brooklyn, 1942		Stern, Peter Edward	New York City
Goldman, Elliot Leonard	New York City	¹ Senior in Columbia	
New York University		Tsacnaris, Harry John	Springfield, Mass.
Goldwasser, Joseph Max	Brooklyn, N. Y.	Springfield	
Brooklyn		Uccellani, Ennio Louis	New York City
Union		Cornell	
Halla, Paul Emil	New York City	Zinn, Arthur, Jr.	San Diego, Calif.
New York University		San Diego State	
		Notre Dame	

¹ Undergraduate student in Columbia University exercising professional option in the School of Dental and Oral Surgery.

POSTGRADUATE STUDENTS
CANDIDATES FOR THE CERTIFICATE OF
PROFICIENCY

Clinical Dentistry

- Chen, Joseph Shanghai, China
D.D.S., Aurora Univ. (China), 1937
Lopez, Eugenio Havana, Cuba
D.D.S., Havana (Cuba), 1944
Mendoza, Arturo Garcia Havana, Cuba
D.V.M., Havana (Cuba), 1938
D.D.S., Havana (Cuba), 1942

Oral Surgery

- White, Joseph Spencer Portland, Me.
D.M.D., Tufts, 1921

Orthodontics

- Batleman, Bernard Ben Norfolk, Va.
D.D.S., Medical College of Virginia, 1941
Bien, Saul Marcus New York City
A.B., New York University, 1933
D.D.S., Columbia, 1937
Buch, Yolanda Fredesvinda Oriente, Cuba
D.D.S., Havana (Cuba), 1942
Cooper, H. Milton Maywood, N. J.
D.D.S., Maryland, 1936
Coven, Jesse Herbert Brooklyn, N. Y.
A.B., New York University, 1935
B.S., Illinois, 1936
D.D.S., Illinois, 1938
Estrada, Leonel Medellin, Colombia
D.D.S., University of Antioquia
(Colombia), 1943
Grenadier, Isidore Mt. Vernon, N. Y.
B.S., New York University, 1932
D.D.S., New York University, 1935
Harris, Harold Robert New York City
D.D.S., New York University, 1936
Hebert, Onil Quebec, Canada
B.A., Sherbrooke College (Canada), 1939
B.D.S., Montreal (Canada), 1942
D.D.S., Montreal (Canada), 1944

- Kaplan, Irwin Brooklyn, N. Y.
D.D.S., Pennsylvania, 1943
Lefkowitz, Norman New York City
A.B., New York University, 1935
D.D.S., Columbia, 1939
Mercier, Adrien William Leominster, Mass.
B.S., Vermont, 1940
D.D.S., Georgetown, 1944
Newman, Herbert Paul West New York, N. J.
D.D.S., Maryland, 1934
Poussin, Ernesto Francisco Havana, Cuba
D.D.S., Havana (Cuba), 1942
Reed, Dorothy Margarette Ann Sea Cliff, N. Y.
D.D.S., Howard, 1944
Restrepo-Isaza, Hernan Medellin, Colombia
D.D.S., University of Antioquia
(Colombia), 1944
Zeisse, Carl Narberth, Pa.
D.D.S., Pennsylvania, 1921

SPECIAL STUDENTS

- Berne, Nathaniel K. Vestal, N. Y.
B.S., Louisville, 1932
D.D.S., Columbia, 1937
Granados-Espitia, Humberto Tolima, Colombia
D.D.S., National University of Colombia,
1940
O'Grady, John Anthony Beloit, Kansas
D.D.S., Kansas City-Western, 1925
Polanen, Jean-fils Desire Paramaribo, Dutch Guiana
D.D.S., Surinam Medical School
(Dutch Guiana), 1937

SUMMARY

Graduates—September 28, 1944.....	51
Fourth Year—June, 1945.....	45
Third Year—March, 1946.....	44
Second Year—December, 1946.....	48
First Year—September, 1947.....	45
Candidates for the Certificate of Proficiency..	21
Special postgraduate students.....	4
Total.....	258

CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for 1945-1946 may be obtained from the Secretary of the University.

1945

July	2	Monday, to July 4, Wednesday. Registration for second, third, and fourth year classes.
July	5	Thursday. New academic year begins for second, third, and fourth year classes.
September	3	Monday, to September 8, Saturday. Vacation.
September	27	Thursday. Second trimester begins for second, third, and fourth year classes.
October	1	Monday, and October 2, Tuesday. Registration for applicants for the certificate of proficiency.
October	1	Monday, to October 3, Wednesday. Registration for first year students.
October	3	Wednesday. Classes begin for applicants for the certificate of proficiency.
October	4	Thursday. Academic year begins for first year class.
November	8	Thursday, to November 10, Saturday. Renewal registration for second, third, and fourth year classes.
November	22	Thursday. Thanksgiving Day.
December	17	Monday. Third trimester begins for second, third, and fourth year classes.
December	24	Monday, to Saturday, December 29. Vacation.

1946

February	1	Friday. Last day for filing applications or renewal of applications for the degree of D.D.S. to be conferred in March. The privilege of later application may be granted on payment of a late fee.
February	7	Thursday, to February 9, Saturday. Renewal registration for first year class.
February	12	Tuesday. Alumni day. Not a holiday.
March	13	Wednesday. Classes end for second, third, and fourth year classes.
March	14	Thursday, to March 23, Saturday. Final examinations for second, third, and fourth year classes.
March	18	Monday. Third trimester begins for first year class.
March	25	Monday, to March 27, Wednesday. Registration for third and fourth year classes.
March	28	Thursday. New academic year begins for third and fourth year classes.
April	1	Monday, and April 2, Tuesday. Registration for applicants for certificate of proficiency.
April	19	Friday. Good Friday. Holiday.
May	29	Wednesday. Last day of classes for first year class.
May	30	Thursday, to June 8, Saturday. Final examinations for first year class.
June	10	Monday, to June 15, Saturday. Vacation.
June	17	Monday. Registration for second year class.
June	18	Tuesday. New academic year begins for second year class.

1946

26

1946 - registrations are
Sept. 9, 10, 11, 1946 all classes
Classes start Sept. 12.

March 28 to June 8 - 2nd + 4th Cl
\$ 20.00
5th register for 1/4 of work -
for 1st + 2nd

Then Sept 9, 10, 11 - registration 15 + 2nd yrs
Dec 7, 1946 - registration 3rd + 4th yrs
Jan 11, 1947 - registration 1st + 2nd yrs
June 22, 1947 extended non-tuition period 1st
June 3 - July 1, 1947 " " " 2nd

1945							1946							1946						
JULY							JANUARY							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	.....	.....	1	2	3	4	5	.....	1	2	3	4	5	6
8	9	10	11	12	13	14	6	7	8	9	10	11	12	13	7	8	9	10	11	12
15	16	17	18	19	20	21	13	14	15	16	17	18	19	20	14	15	16	17	18	19
22	23	24	25	26	27	28	20	21	22	23	24	25	26	27	21	22	23	24	25	26
29	30	31	.....	.....	.....	.....	27	28	29	30	31	.....	.....	.....	28	29	30	31	.....	.....
AUGUST							FEBRUARY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	1	2	3	4	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	1	2	3
5	6	7	8	9	10	11	3	4	5	6	7	8	9	4	5	6	7	8	9	10
12	13	14	15	16	17	18	10	11	12	13	14	15	16	11	12	13	14	15	16	17
19	20	21	22	23	24	25	17	18	19	20	21	22	23	18	19	20	21	22	23	24
26	27	28	29	30	31	.....	24	25	26	27	28	.....	.....	25	26	27	28	29	30	31
SEPTEMBER							MARCH							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	2	1	2	3	4	5	6	7
2	3	4	5	6	7	8	3	4	5	6	7	8	9	8	9	10	11	12	13	14
9	10	11	12	13	14	15	10	11	12	13	14	15	16	15	16	17	18	19	20	21
16	17	18	19	20	21	22	17	18	19	20	21	22	23	22	23	24	25	26	27	28
23	24	25	26	27	28	29	24	25	26	27	28	29	30	29	30	.....	.....	.....	.....	.....
30	31	.....	.....	.....	.....	.....	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
OCTOBER							APRIL							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	1	2	3	4	5	6	.....	1	2	3	4	5	6	.....	.....	1	2	3	4	5
7	8	9	10	11	12	13	7	8	9	10	11	12	13	6	7	8	9	10	11	12
14	15	16	17	18	19	20	14	15	16	17	18	19	20	13	14	15	16	17	18	19
21	22	23	24	25	26	27	21	22	23	24	25	26	27	20	21	22	23	24	25	26
28	29	30	31	.....	.....	.....	28	29	30	.....	.....	.....	.....	27	28	29	30	31	.....	.....
NOVEMBER							MAY							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	.....	1	2	3	.....	.....	.....	1	2	3	4	.....	.....	.....	.....	.....	1	2
4	5	6	7	8	9	10	5	6	7	8	9	10	11	3	4	5	6	7	8	9
11	12	13	14	15	16	17	12	13	14	15	16	17	18	10	11	12	13	14	15	16
18	19	20	21	22	23	24	19	20	21	22	23	24	25	17	18	19	20	21	22	23
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DECEMBER							JUNE							DECEMBER						
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Columbia University

BULLETIN OF INFORMATION

Forty-sixth Series, No. 30

June 22, 1946

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

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Columbia University Bulletin of Information

Forty-sixth Series, No. 30

June 22, 1946

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These include the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools and of certain Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 13,500—1946.

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All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.; telephone Wadsworth 3-2500.

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in the City of New York

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FREDERICK MILLER, C.E.	<i>Director of Buildings and Grounds</i>
THOMAS A. MCGOEY, M.S.	<i>Director of University Residence Halls</i>
MARGARET BARNARD PICKEL, Ph.D.	<i>Dean of University Women</i>
WILLIAM H. MCCASTLINE, M.D.	<i>University Medical Officer</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>

AT SCHOOL OF DENTAL AND ORAL SURGERY

MARJORIE MACBAIN	<i>Assistant to the Registrar</i>
SEYMOUR ROBB, A.B. in L.S.	<i>Medical Librarian</i>

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

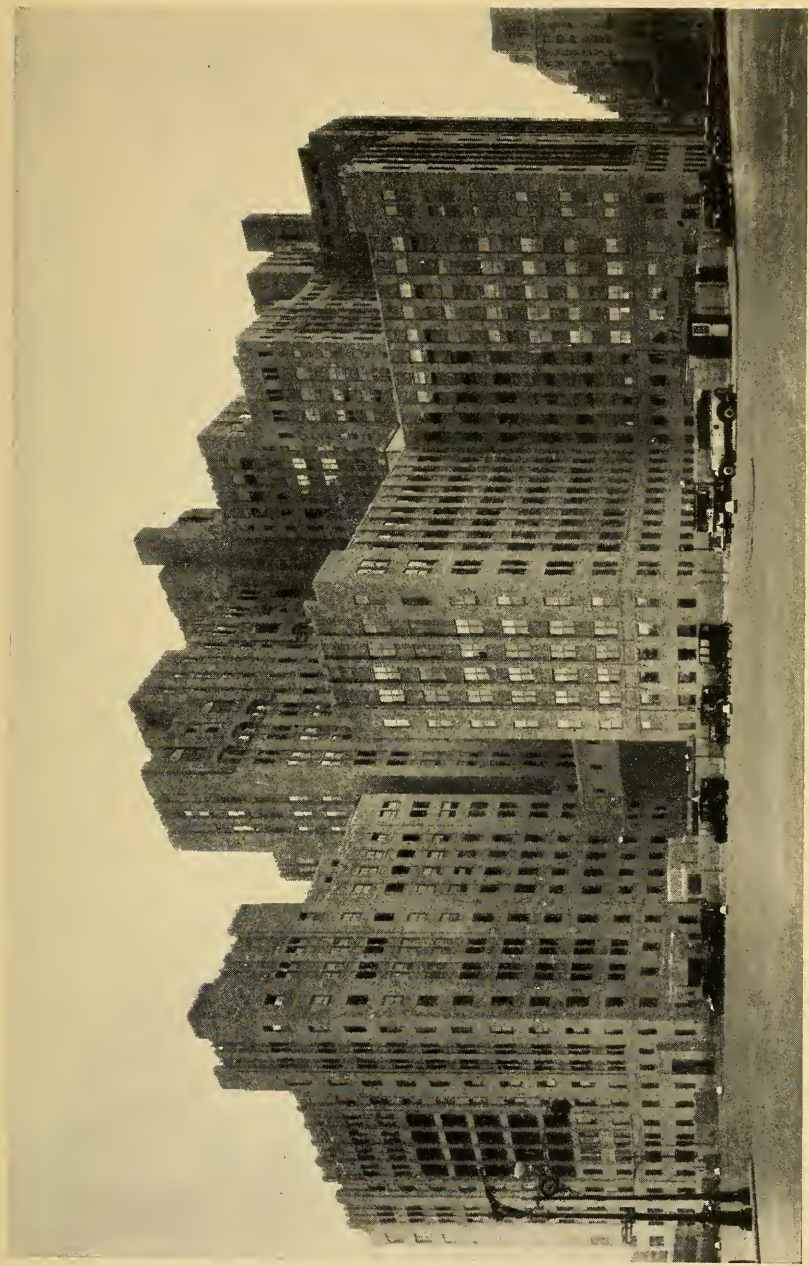
In May, 1916, the University issued a pamphlet entitled *A Dental School on University Lines*. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coördination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

"Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine."

In the fall of 1917 Mr. James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery, this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and art."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dental and Oral Surgery, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective Faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in the Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

LIBRARY

The library is one of the most vital adjuncts of the School. Second largest medical library in the United States connected with a school of medicine, it performs three major functions, namely: provides a sound collection in the historical literature of most branches of medicine; serves students and faculty alike through keeping up with current literature (both texts and journals) and by acquiring unusual and sometimes obscure material; and through a well developed inter-library loan system, encourages and assists in advanced research.

The library, with seating accommodations for 250 readers, now contains more than 125,000 volumes and about 10,000 pamphlets and occupies a part of three lower floors of the main administration building of the Medical Center. A trained library staff provides specialized services to meet the needs of students, residents, faculty, and research workers of the combined Medical School, Dental School, School of Public Health, School of Nursing, and hospital units.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,200 current journals, and nearby are shelved files of reviewing, indexing, and abstracting services as well as a selection of the more important journals. All other journals are shelved in the stacks.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily until 6 p.m. during the academic year, except on Sundays and legal holidays. It will also be open evenings from 6 to 9:30 p.m. on days to be announced. On holidays it is open from 3 to 6 p.m. One or more of the instructors are on duty at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are

referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their schoolwork and their health. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, 500 Riverside Drive, is a privately endowed residence for students from foreign lands and a limited number of American students. It accommodates 175 women and 325 men and contains a restaurant and social rooms. Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive, New York 27, N. Y.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the campus entrance, are the offices of the Chaplain of the University and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on the second floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at

discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$.75, clothbound. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire pre-dental record of each student is carefully examined by the Committee on Ad-

missions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special pre-dental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the completion of at least four years of high school work, including certain specific subjects, the attainment of at least eighteen years of age, and the qualifying certificate obtained from the Department of Education of the State of New York. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. For full information address the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

Note: Starting in the Fall of 1947 it is planned to increase the period of training from one to two academic years, and to require for admission a minimum of two years of satisfactory college work at a college or university acceptable to Columbia University. The possibility of granting a Bachelor's degree in addition to the Certificate in Dental Hygiene is under consideration. During the transition well-qualified individuals with less than two years of college work may be accepted for the certificate only.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1946-1947 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these specially arranged courses. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant a certificate of training in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have been graduated from an acceptable school of dentistry in the United States or a foreign country.

The course of study for the certificate of training includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fourteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in Oral Surgery, in General Dentistry, and in Periodontology. For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

FELLOWSHIPS

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health is offered by the School of Public Health. The course is open to graduate dentists. For information regarding course content, registration, and fees apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for dental students:

(a) University Fee

For all students for each session, or for any part thereof \$10.00

(b) Tuition Fee

For the course in dentistry for one half an academic year (or equivalent)
in the case of a student enrolled for the full course 300.00
For students not enrolled for the full course, fees are to be assessed by the
University as provided by the University Statutes.

(c) Application

1. For a degree 20.00
2. For a certificate 10.00

(d) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations 3.00
2. Deficiency or special examinations 3.00
3. Renewal of application for any degree or certificate 1.00

(e) Student Activities (payable annually)

1. For all students, Columbia Dental Review 2.00
2. For sophomores, juniors, and seniors, junior membership in the American Dental Association 3.00
3. Student activities50

(f) Case Rental

For sophomores, juniors, and seniors, rental for one instrument case, for each semester \$2.50

(g) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.

2. If a student withdraws from the School a partial return of tuition fee may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

(h) Deposit 25.00

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
	Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. (At present microscopes are difficult to obtain at any price.) Each student should also provide himself with a substage lamp. During the national emergency it is possible to rent microscopes from the University Book Store at a rental fee of \$25 for an academic year.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1945-1946 and can be accepted as applicable in general for the year 1946-1947 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$655.00	\$630.00
Room	260.00	190.00
Board	385.00	350.00
Books	80.00	40.00
Instruments (see below)	300.00	300.00
Laundry	50.00	36.00
	<hr/>	<hr/>
	\$1,630.00	\$1,446.00

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement

- a) Unconditionally
- b) Conditionally

II. Recommended for readmission to the same class

III. Recommended neither for advancement nor for readmission to the same class

- a) Because of failure
- b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

NATIONAL BOARD OF DENTAL EXAMINERS

The National Board of Dental Examiners provides an examination in the theory of the science of dentistry. The clinical examination, in every instance, is reserved for the state examining board. A certificate of qualification will be issued to each candidate approved by the National Board when the candidate has been in actual practice for three years after his graduation and has submitted new and satisfactory evidence of his moral and ethical standards of professional conduct. To date the following states have dental laws permitting their licensing authorities to recognize the certificate of qualification of the National Board of Dental Examiners: Alabama, Connecticut, Delaware, Georgia, Indiana, Iowa, Illinois, Kansas, Maine, Minnesota, Nebraska, Oklahoma, Pennsylvania, South Dakota, and Virginia.

Only such undergraduates as may be certified by their respective deans shall be eligible to the National Board examinations. The examinations are held in two separate parts. Part I, which is open to undergraduate candidates who have met the predoctoral requirements and have successfully completed the first two years of work in an approved dental school, consists of a written examination in the following sciences: anatomy, general and dental; bacteriology; physiology; general pathology; histology, general and dental, including embryology; physiological chemistry and metallurgy. Part II, which is open to undergraduate candidates who have passed Part I and have successfully completed the senior year or are eligible for the final examinations of the senior year in an approved dental school, consists of a written examination in each of the following subjects: operative dentistry; materia medica and therapeutics; prosthetic dentistry, including partial and full denture, fixed and removable bridgework, and crown construction; oral and dental surgery; orthodontia, radiology, jurisprudence and ethics; oral pathology and anesthesia. Usually the examinations are given twice a year, in January and May. Application should be made to GORDON L. TEALL, D.D.S., Secretary of the National Board of Dental Examiners, Hiawatha, Kansas.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Grover C. Beckwith-Ewell.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in Pedodontics has been established by the Class of 1929.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which sophomores, juniors, and seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE DENTAL ABSTRACT SOCIETY

The Dental Abstract Society is open to all students and staff members who are interested in current dental literature. Monthly meetings are held, at which abstracts of selected articles from current periodicals are read and discussed.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL
OF DENTAL AND ORAL SURGERY

President, EDWARD R. WHITE

President-elect, JULIUS HORN

Vice-President, MORRIS FIERSTEIN

Secretary, WILLIAM GIBLIN

Treasurer, HANNAH J. APPEL

Editor, JOHN J. MAYERS

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

<i>Subject</i>	<i>Trimester Credits</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FRESHMAN YEAR:				
Anatomy				
Embryology	2	20	...	20
Gross	15	60	262	322
Microscopic	8	38	126	164
Neuro	4	60	...	60
Oral	6	18	95	113
Biochemistry	8	35	105	140
Histology, oral	2	7	61	68
Physiology	10	56	148	204
	<hr/>			
SOPHOMORE YEAR:	55			1,091
Bacteriology	7	40	90	130
Crown and bridge	4	10	85	95
Dental materials	2	...	40	40
Oral hygiene	2	20	...	20
Operative dentistry	9	20	220	240
Pathology	11	70	130	200
Periodontology	1	...	30	30
Pharmacology	6	50	30	80
Prosthetic dentistry	10	20	210	230
Psychopathology	1	10	...	10
Radiology	1	10	...	10
Surgery, oral	2	20	...	20
	<hr/>			
JUNIOR YEAR:	56			1,105
Anatomy, applied	1	10	...	10
Crown and bridge				
Technic	6	10	105	115
Clinic	1	...	30	30
Porcelain	2	...	60	60
Applied occlusal dynamics	1	...	30	30
Diagnosis, dental	4	30	30	60
Operative dentistry	11	20	300	320
Orthodontics	5	20	75	95
Pathology, oral	4	20	60	80
Periodontology	1	...	30	30
Prosthetic dentistry	7	20	150	170
Public health	2	20	...	20
Radiology	1	...	30	30
Surgery, oral	2	10	30	40
Theory and practice	2	20	...	20
Therapeutics	1	10	...	10
	<hr/>			
SENIOR YEAR:	51			1,110
Crown and bridge	6	10	150	160
Diagnosis, dental	1	...	30	30
Operative dentistry	13	20	330	350
Pedodontics	4	10	90	100
Periodontology	3	20	25	45
Practice of medicine	5	40	20	60
Prosthetic dentistry	6	10	150	160
Surgical prosthesis	1	...	30	30
Surgery, oral	4	40	60	100
Theory and practice	1	10	...	10
	<hr/>			
Senior electives	44			1,045
Oral pathology . . . . .	...	15	...	15
Oral surgery . . . . .	...	30	...	30
Orthodontics . . . . .	...	...	30	30
Public health . . . . .	...	...	48	48

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of homework. For laboratory or clinical work it represents three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on page 26 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. Sophomore year. 4 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. Junior year. 6 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 206—Crown and bridge clinic. Junior year. 1 credit.

Clinical construction of elementary crown and bridgework.

Crown and Bridge 207—Porcelain technic. Junior year. 2 credits.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Junior year. 1 credit.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Senior year. 7 credits.

Clinical construction of crown and bridgework.

Crown and Bridge 212—Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technic stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of *Diagnosis 212*.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 9 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 11 credits.

Lectures on the application of operative fundamentals to clinical practice. The technic of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 5 credits.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 243—Orthodontic elective. Senior year. No credit.

Clinical orthodontics. Offered to seniors who are eligible for electives.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 11 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 10 credits.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lecture and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental hygiene and environment adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 2 credits.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Junior year. 1 credit.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year. 2 credits.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases.

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 4 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in the removal of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective.

Presentation and demonstrations of oral pathological and maxillofacial lesions.

THEORY AND PRACTICE OF DENTISTRY**Theory and Practice 281—Dental ethics and practice management. Junior year. 1 credit.**

Lecture and conference course on dental ethics, economics, office conduct and routine.

Theory and Practice 282—Dental jurisprudence. Junior year. 1 credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Senior year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 284—Senior thesis.

Each senior is required to present a thesis representing original reading, scientific research, or both, to be completed under the immediate supervision of Professor HOLLIDAY and with the help of an adviser in the field selected, and with the final approval of the Research Committee.

Theory and Practice 285—Comprehensive case. Junior and senior years.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Junior year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.
Formerly *Pharmacology 250*.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Required: Gray, *Anatomy*, \$12.00; Rogers, *Dissecting Manual*, \$.75. Recommended but not required: Cunningham, *Manual of Practical Anatomy*, \$12.75 a set; Cunningham, *Textbook of Anatomy*, \$12.00; Piersol, *Human Anatomy*, \$10.00.

Applied anatomy. Required: Shapiro, *Applied Anatomy of the Head and Neck*, \$5.50.

Embryology. Required: Arey, *Developmental Anatomy*, \$6.75.

Microscopic anatomy. Required: Bailey, *Textbook of Histology* (11th ed.), \$6.00.

Neuroanatomy. Required: Strong and Elwyn, *Human Neuroanatomy*, \$6.00.

Oral anatomy. Required: Diamond, *Dental Anatomy* (2d revised ed.), \$4.50.

Oral histology and embryology. Required: Bodecker, *Fundamentals of Dental Histology and Embryology* (Columbia ed.), \$4.00; *Laboratory Manual and Drawing Notebook, Oral Histology and Embryology*, \$.75.

BACTERIOLOGY. Required: Jordan and Burrows, *Textbook of Bacteriology*, \$6.00.

Recommended but not required: Gordon, et al, *Dental Science and Dental Art*, \$9.50; Topley and Wilson, *Principles of Bacteriology and Immunity* (2d ed.), \$12.00.

BIOCHEMISTRY. Required: Harrow, *Textbook of Biochemistry* (3d ed.), \$4.00; Karshan, *Laboratory Manual*, \$.75. Recommended but not required: Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$8.00.

CROWN AND BRIDGE. Required: Tylman, *Crown and Bridge Prosthesis*, \$10.00; Hoyt et al, *Crown and Bridge Syllabus*, \$.75. Recommended but not required: Le Gro, *Ceramics in Dentistry*, \$7.50; Felcher, *Porcelain in Dentistry*, \$9.00.

DENTAL MATERIALS. Required: *Physical Properties of Dental Materials*, Bureau of Standards Circular C 433, United States Government Printing Office, \$.75. Recommended but not required: Skinner, *The Science of Dental Materials* (2d ed.), \$4.75.

DIAGNOSIS. Required: *Differential Diagnosis of Mouth Diseases*, \$4.00; *Handbook of Pulp Symptomatology and Diagnosis*, \$1.15. Mimeographed material furnished by the Department.

MEDICINE. Required: Yater, *Fundamentals of Internal Medicine*, \$10.00. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.50; Comroe, Collins, and Crane, *Internal Medicine in Dental Practice*, \$5.50; Meakins, *Practice of Medicine*, \$10.00.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, Vols. II and III, \$5.50 each. Mimeographed notes are also furnished by the Department.

ORAL HYGIENE. Required: Gordon, *Dental Science and Art*, \$9.50.

ORTHODONTICS. Recommended for collateral reading: Salzman, *Principles of Orthodontics*, \$10.00; Strang, *Textbook of Orthodontia* (2d ed.), \$10.00; Dewey and Anderson, *Practical Orthodontics* (6th ed.), \$10.00; McCoy, *Applied Orthodontia* (5th ed.), \$4.50.

PATHOLOGY. Required: W. A. D. Anderson, *Synopsis of Pathology*, \$6.00.

ORAL PATHOLOGY. Required: Cahn, *Pathology of the Oral Cavity*, \$5.50.

PEDODONTICS. Required: McBride, *Juvenile Dentistry*, \$6.50.

PERIODONTOLOGY. Suggested but not required: Goldman, *Periodontia*; Hirschfeld, *The Toothbrush*, \$7.50; Merritt, *Periodontal Disease*, \$3.75.

PHARMACOLOGY. Required: Goodman and Gillman, *Pharmacological Basis of Therapeutics*, \$12.50. Recommended but not required: *Accepted Dental Remedies*, \$1.00.

PHYSIOLOGY. Required: Bard, MacLeod, *Physiology in Modern Medicine*, \$10.00; *Laboratory Manual*, \$75.

PROSTHETIC DENTISTRY. Required: Anthony, *American Textbook of Prosthetic Dentistry*, \$11.00; Swenson, *Complete Dentures*, \$10.00; Young et al, *Syllabus*, \$1.60. Recommended but not required: Nichols, *Prosthetic Dentistry*, \$12.50.

PSYCHIATRY. Recommended but not required: Henderson and Gillespie, *Textbook on Psychiatry*, \$7.00; Hinsie, *Visual Outline of Psychiatry*, \$2.00; Noyes, *Modern Clinical Psychiatry*, \$5.00; Solomon and Yakolev, *Manual of Military Neuropsychiatry*, \$6.00; Strecker, *Fundamentals of Psychiatry*, \$3.00; Strecker and Ebaugh, *Practical Clinical Psychiatry*, \$5.00; Weiss and English, *Psychosomatic Medicine*, \$8.00.

RADIOLOGY. Required: Ennis, *Dental Roentgenology* (3d ed.), \$6.50.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Homans, *Textbook of Surgery*, \$8.00. Recommended but not required: Berger, *Principles and Technique of the Removal of Teeth*, \$7.50; Flagg, *Art of Anesthesia*, \$5.00; Parker, *Synopsis of Traumatic Injuries of the Face and Jaws*, \$4.50; Stout, *Human Cancer*, \$10.00.

DICTIONARY. Required: Stedman, *Medical Dictionary*, \$7.50. Recommended but not required: W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*, \$6.50. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50.

REGISTER OF STUDENTS

GRADUATES—CLASS OF JUNE 28, 1945

Abelson, Jacob	New York City	Jacobs, William Ralph	Brooklyn, N. Y.
B.S., College of the City of New York, 1941		A.B., Brooklyn, 1942	
Arnold, Herbert	New York City	Kaplan, Benjamin	New York City
A.B., New York University, 1942		Cornell	
Baer, Paul Nathan	Kew Gardens, N. Y.	Largey, John Francis	New York City
A.B., Brooklyn, 1942		B.S., Niagara, 1942	
Bartelstone, Herbert Jerome	New York City	Lieberman, Julius	New York City
B.S., College of the City of New York, 1942		B.S., College of the City of New York, 1934	
Bell, Archie Harry	Elizabeth, N. J.	M.S., College of the City of New York, 1940	
A.B., Columbia, 1943		Madden, Robert Francis	Lake Placid, N. Y.
Benfield, James Winston	Hartsdale, N. Y.	Fordham	
A.B., Syracuse, 1925		Mandel, Irwin Daniel	Brooklyn, N. Y.
Blatman, Daniel	Great Neck, N. Y.	B.S., College of the City of New York, 1942	
Colby		Menasche, Salvatore	Brooklyn, N. Y.
Boscarelli, Ignazio Frank	New York City	A.B., Brooklyn, N. Y.	
B.S., Manhattan, 1942		Miringoff, Aaron Yale	New York City
Brown, William James	Brooklyn, N. Y.	B.S., College of the City of New York, 1941	
Fordham		Mitchell, Joseph James	Brooklyn, N. Y.
Cain, Edward Andrew	New York City	B.S., St. John's (N. Y.), 1941	
B.S., Fordham, 1942		Mohr, Irving Ward	New York City
Cohen, Meyer	Elizabeth, N. J.	A.B., New York University, 1942	
B.S., Rutgers, 1938		Morelli, Nicholas Francis	Catskill, N. Y.
Colaneri, Joseph Nicholas	New York City	A.B., Union, 1942	
A.B., Columbia, 1941		Oliveri, Gaspar Anthony	Brooklyn, N. Y.
Conaty, Arnold Paul	Hartsdale, N. Y.	B.S., St. John's (N. Y.), 1942	
A.B., Brown, 1945		Ostreicher, Herbert Paul	Jackson Heights, N. Y.
Daly, William Jerome	Brooklyn, N. Y.	A.B., Columbia, 1943	
A.B., Columbia, 1943		Sarkady, Lester Samuel	Brooklyn, N. Y.
Di Salvo, Nicholas Armand	New York City	A.B., New York University, 1942	
B.S., College of the City of New York, 1942		Shwalb, Richard Abraham	Brooklyn, N. Y.
Durant, Robert Edward	New Bedford, Mass.	A.B., Columbia, 1943	
Boston College		Siegel, Fred Morris	Schenectady, N. Y.
Freeman, Morris	New York City	Union	
A.B., New York University, 1942		Steinberg, Charles	New York City
Friedman, Marvin	New York City	B.S., College of the City of New York, 1941	
A.B., New York University, 1942		Stella, Armand Matthew	Monmouth Beach, N. Y.
M.S., New York University, 1942		B.S., Manhattan, 1942	
Gattegno, Edgar	New York City	Stern, Leo, Jr.	New York City
A.B., New York University, 1942		A.B., Columbia, 1943	
Goodman, Robert	New York City	Stone, Arnold	Flushing, N. Y.
A.B., New York University, 1942		Queens	
Halbrecht, Irving Daniel	Somerville, N. J.	Tolge, Reinhold Bruno	Schenectady, N. Y.
A.B., New York University, 1942		Union	
Hogan, John Daniel	Highland Falls, N. Y.	Zeh, William George	Glendale, N. Y.
B.S., Notre Dame, 1942		B.S., Long Island, 1942	
Horowitz, Mervin Bell	New York City		
B.S., College of the City of New York, 1942			

OCTOBER 4, 1945 TO JUNE 8, 1946

FOURTH YEAR-CLASS OF MARCH, 1946

Archer, William Harold	New York City	Chnapko, Victor Peter	New York City
A.B., Fordham, 1943		B.S., Long Island, 1942	
Arden, Howard Anthony	New York City	Della Rocca, Vincent Paul	New York City
B.S., Fordham, 1943		New York University	
Ballin, Bert	New York City	De Vito, Joseph John	Brooklyn, N. Y.
A.B., Oberlin, 1943		A.B., Columbia, 1943	
Cali, Vincent	New York City	Earnest, Franklin Arthur	New York City
B.S., College of the City of New York, 1943		A.B., New York University, 1943	
Campbell, Paul Stine	Redlands, Calif.	Ellison, Solon Arthur	New York City
Redlands		B.S., College of the City of New York, 1942	
		Elvershofen, Walter	New York City
		Columbia	

Fitz-Gibbon, John Hamilton	Holyoke, Mass.	Zingesser, Maurice Roy	New York City
Providence		A.B., New York University, 1942	
Garber, Martin Aaron	Providence, R. I.		
Providence			
Gladue, Wilfred Harold	Woonsocket, R. I.		
B.S., Rhode Island State, 1943			
Halpert, Wesley	New York City		
B.S., College of the City of New York, 1943			
Hamberg, Eric Olov	Gavle, Sweden		
* LDS Stockholm (Sweden), 1929			
Katz, Lester Edwin	New York City		
New York University			
Kotch, Raymond Leonard	New York City		
B.S., College of the City of New York, 1943			
Kutscher, Austin Harrison	New York City		
New York University			
McElroy, Joseph Raymond	Brooklyn, N. Y.		
St. John's University			
Mandel, Louis	New York City		
A.B., New York University, 1943			
Minervini, George August	Yonkers, N. Y.		
A.B., Columbia, 1942			
Morris, Robert Darcy	Jackson Heights, N. Y.		
A.B., Fordham, 1943			
Moss, Melvin Lionel	New York City		
A.B., New York University, 1942			
Olinger, Donald Sundell	Glen Ridge, N. J.		
Pennsylvania			
Pane, John Thomas	New York City		
B.S., Fordham, 1942			
Piro, John Donald	New York City		
Fordham			
Rechter, Alfred	New York City		
B.S., College of the City of New York, 1943			
Rechter, Elaine Wishengrad	New York City		
Brooklyn			
Illinois			
Schonberg, Leon	New York City		
B.S., College of the City of New York, 1944			
Schultz, Wilbert James, Jr.	New York City		
A.B., Hofstra, 1939			
Schustak, Robert Leslie	Rockaway Beach, N. Y.		
B.S., New York University, 1943			
Shapiro, Robert Leonard	Springfield, Mass.		
Vermont			
Smith, Roger Frederick	Manhasset, N. Y.		
A.B., Holy Cross, 1943			
Sommer, Gordon Alexander	Spokane, Wash.		
B.S., Idaho, 1940			
Columbia Medical School			
Stirling, Martin Theodore	Brooklyn, N. Y.		
A.B., Brooklyn, 1943			
Stone, Melvin Joseph	Dorchester, Mass.		
B.S., Tufts, 1943			
Valinotti, Joseph Robert	Brooklyn, N. Y.		
Fordham			
Weissman, Bertram	New York City		
College of the City of New York			
Winter, Lester Weiss	New York City		
B.S., College of the City of New York, 1929			
A.M., New York University, 1939			
Wuthenow, Albert Eugene	Jackson Heights, N. Y.		
Fordham			
Zachinsky, Leo	New York City		
A.B., New York University, 1942			

THIRD YEAR—CLASS OF JUNE, 1947

Armao, Thomas Anthony	Brooklyn, N. Y.
Manhattan	
Breheny, John Martin	New York City
Fordham	
Darling, Maus Vedder	Stamford, Conn.
A.B., Johns Hopkins, 1936	
Derevlany, Michael John	Whitestone, N. Y.
A.B., Columbia, 1944	
D'Errico, Louis John	Flushing, N. Y.
A.B., Columbia, 1944	
Ferber, Irwin	New York City
New York University	
Field, Jesse Waldron	New York City
A.B., Gettysburg, 1936	
Fletcher, Roland Anderson	Mt. Vernon, N. Y.
Amherst	
Yale	
Galvano, Frank Joseph	New York City
B.S., Manhattan, 1944	
Golub, Leo Joseph	New York City
A.B., Columbia, 1943	
Halperin, Arnold	New York City
New York University	
Hayward Donald Edwin, Jr.	Brooklyn, N. Y.
New York University	
Heaphy, Charles Francis	Norwalk, Conn.
Fordham	
Heyen, Aloys Diedrich	Lynbrook, N. Y.
Franklin & Marshall	
Hoelzer, Robert Frederick	Hollis, N. Y.
Colgate	
Hosiosky, Ellen N.	New York City
D.M.D., Basle (Switzerland), 1935	
Jaxheimer, David Paul	Freeport, N. Y.
Muhlenberg	
Jurka, Charles Edward	Chappaqua, N. Y.
Hamilton	
Kafka, Betty	Brooklyn, N. Y.
A.B., Brooklyn, 1943	
Kelley, Edward Joseph, Jr.	Norwalk, Conn.
Fordham	
Kovarsky, Leonard	Passaic, N. J.
Ohio	
New York University	
Lane, John O'Gorman, Jr.	New York City
Columbia	
Levin, Alfred W.	New York City
New York University	
Levine, Wilfred	New York City
New York University	
Luboj, Edward Stephen	New York City
Fordham	
Lucca, John James	Brooklyn, N. Y.
A.B., New York University, 1941	
McGann, Donald Michael	New York City
A.B., St. Peter's (N. J.), 1943	
Murray, John Joseph	New York City
Fordham	
Nicoletti, Leonard John	Weehawken, N. J.
A.B., Columbia, 1943	
Oberman, Philip	New York City
New York University	
Portale, Joseph Sebastian	Brooklyn, N. Y.
Villanova	

* Student will finish senior year in June, 1946.

Rackson, Chester Bert B.S., Queens, 1944	Elmhurst, N. Y.	Goldman, Elliot Leonard New York University	New York City
Raebeck, William, Jr. Colgate	Belle Harbor, N. Y.	Goldwasser, Joseph Max Brooklyn Union	Brooklyn, N. Y.
Remnick, Herbert Stanley New York University	Paterson, N. J.	Halla, Paul Emil New York University	New York City
Rifkin, Irving A.B., New York University, 1943	Los Angeles, Calif.	Haufe, Thomas Robert Fordham Cornell	New York City
Russell, Raymond Homer Union	Ilion, N. Y.	Imarisio, John Joseph A.B., New York University, 1944	New York City
Salem, James Joseph Fordham	Brooklyn, N. Y.	Kantorowitz, Leo B.S., Providence, 1944	Providence, R. I.
Santeramo, Eugene Frank Queens	Jamaica, N. Y.	Klein, Harold Jacques A.B., New York University, 1943	New York City
Scheiner, Herman Isaac New York University	New York City	Klickstein, Melvin Massachusetts State Trinity (Conn.)	Malden, Mass.
Shapiro, Sidney Hofstra	New York City	Korniewicz, John Alexander St. Francis College (N. Y.) Holy Cross	Brooklyn, N. Y.
Slagle, Charles Joseph New York University	Port Chester, N. Y.	Lazoff, Arthur B.S., College of the City of New York, 1944	New York City
Stuart, Robert Sterling A.B., Bowdoin, 1944	Portland, Maine	Lewis, Robert Mervin Rutgers	Newark, N. J.
Telsey, Daubert New York University	Long Island City, N. Y.	Loeb, Morton Samuel Queens Colgate	Jamaica, N. Y.
Thomson, Joseph John Clayton St. Peter's (N. J.)	North Bergen, N. J.	Lorber, Mortimer New York University	New York City
Walsh, Robert Francis Fordham	Jamaica, N. Y.	Maillard, Gene Charles Fordham New York University	Ridgewood, N. Y.

SECOND YEAR—CLASS OF JUNE, 1948

Arsian, Paul A.B., New York University, 1943	New York City	Mand, Stanley Mervin New York University	Brooklyn, N. Y.
Auerbach, Gabriel Irving B.S., Massachusetts State, 1941	New York City	Marmer, David A.B., New York University, 1944	New York City
Auslander, Irwin Howard New York University	Brooklyn, N. Y.	Miller, Harold B.S., Long Island, 1939	New York City
Baumash, Harold Daniel New York University	New York City	M.S., New York University, 1942	New York City
Blanco-Dalmau, Luis University of Puerto Rico	Rio Piedras, P.R.	O'Malley, Benedict Bernard A.B., Fordham, 1943	New York City
Blugerman, John Mark Columbia	Brooklyn, N. Y.	Pino, Rudolph Victor B.S., Fordham, 1943	Brooklyn, N. Y.
Cacciola, Frank James St. John's University	Jackson Heights, N. Y.	Prince, Ivin Bittker A.B., New York University, 1943	New York City
Cava, Nicholas Joseph Long Island	Bethpage, N. Y.	Rebhun, Lionel Earl College of the City of New York	New York City
D'Andrea, Anthony Louis B.S., Manhattan, 1939	New York City	Robinson, Irwin Schnoll B.S., College of the City of New York, 1944	Great Neck, N. Y.
Deesen, Kenneth Charles Queens	Brooklyn, N. Y.	Scrivani, Steven Silvio Brooklyn	Brooklyn, N. Y.
Massachusetts Institute of Technology		Stein, Joseph Robert College of the City of New York	New York City
Delasho, James William B.S., Manhattan, 1943	Yonkers, N. Y.	New York University Cornell University Yale University	
Disick, Donald Brooklyn	Brooklyn, N. Y.	Stern, Eli Sheldon New York University Columbia	New York City
Engel, Walter Frederick, Jr. Wesleyan	Brooklyn, N. Y.	Stern, Peter Edward Columbia	New York City
Englander, Harold Robert College of the City of New York Washington Univ. (Mo.)	New York City	Tsacnaris, Harry John Springfield	Springfield, Mass.
Fenning, Howard Rassler A.B., Lafayette, 1942	Middletown, N. Y.	Uccellani, Ennio Louis Cornell	New York City
Friedman, Jay Wolfe North Carolina	Hempstead, N. Y.	Zinn, Arthur, Jr. San Diego State Notre Dame	San Diego, Calif.
Gallagher, Joseph John Columbia	Brooklyn, N. Y.		
Giannattasio, Rudolph Camillo A.B., Brooklyn, 1942	Brooklyn, N. Y.		

FIRST YEAR—CLASS OF JUNE, 1949

Andreozzi, Armando Edmond	Providence, R.I.
Brown	
Tufts	
Avery, James Harrison, Jr.	Middletown, N. J.
A.B., Lincoln	
Berg, Marc Louis	New York City
Cornell	
Breuer, Jack M.	New York City
Columbia	
Burke, Martin Joseph	New York City
Fordham	
Washington University (Mo.)	
Maryland Dental School	
Cook, Dana Ellsworth	Tarrytown, N. Y.
Massachusetts Institute of Technology	
Colgate	
Freedman, Leonard Irving	Cedarhurst, N. Y.
Wisconsin	
New York University	
Gardner, Isaac, Jr.	Tampa, Fla.
A.B., Talladega	
Harnett, William Watkins	Tenafly, N. J.
Detroit	
Hanover	
Columbia	
John, Hedda Maria	New York City
M.D., German University Dental Clinic	
(Prague)	
D.D.S., State Institute for Dental Surgery	
(Prague)	
Karlan, Frances Ross	New York City
B.S., Massachusetts Institute of Technology	
Kurzus, George	Brooklyn, N. Y.
New York University	
Levin, Alfred Warren	New York City
George Washington	
McAllister, Charles Bruce, Jr.	Elmhurst, N. Y.
B.S., Fordham	
Moriarty, John Joseph	Brooklyn, N. Y.
A.B., Fordham	
Pobiner, Harvey	Brooklyn, N. Y.
Brooklyn	
Prata, Raymond Louis	New York City
B.S., Fordham	
Richmond, Julius Kenrick	Makepace
Georgetown, B. G.	
Queens College (British Guiana)	
Columbia	
Robinson, Jean Joseph	New York City
Fordham	
Wille, Carl Ludwig	Stuart Manor, N. Y.
B.S., Fordham	
Yanowitz, Bernard N.	Malone, N. Y.
St. Lawrence	

POSTGRADUATE STUDENTS

CANDIDATES FOR THE CERTIFICATE OF
PROFICIENCY*Oral Surgery*

Bundrant, Theodore Mitchell	Monroe, N. Y.
D.D.S., Howard, 1929	
Culhane, M. Carroll	Waterbury, Conn.
D.M.D., Tufts, 1937	

Morales, Jorge Enrique	Panama City, Panama
A.B., National Institute of Panama, 1934	
D.D.S., Atlanta Southern College, 1940	
Rattner, Nathaniel	Astoria, N. Y.
D.D.S., Pennsylvania	
Varallo, Dominic Vincent	Fairlawn, N. J.
B.S., Fordham, 1936	
D.D.S., Georgetown, 1940	

Orthodontics

Cooper, H. Milton	Maywood, N. J.
D.D.S., Maryland, 1936	
Fordham, Walter Harris	Scranton, Pa.
D.D.S., Pennsylvania, 1945	
Grenadier, Isidore	Mt. Vernon, N. Y.
B.S., New York University, 1932	
D.D.S., New York University, 1935	
Howard, Eugene Grant	Chicopee, Mass.
A.B., Harvard, 1941	
D.M.D., Tufts, 1945	
Ippolito, Nicholas Anthony	Glendale, N. Y.
D.D.S., Pennsylvania, 1937	
Khalaf, James William, Jr.	Maplewood, N. J.
D.D.S., Pennsylvania, 1939	
LaFemina, James Joseph	Hamden, Conn.
D.M.D., Tufts, 1936	
McElnea, Howard Stanley	East Orange, N. J.
B.S., Pittsburgh, 1930	
D.D.S., Pittsburgh, 1931	
McLaren, Everett Gerard	New York City
D.D.S., Pennsylvania, 1942	
Messing, Mortimer	Brooklyn, N. Y.
D.D.S., Columbia, 1941	
Pearlman, Lawrence	Brookline, Mass.
D.M.D., Tufts, 1940	
Radom, Judith G.	New York City
A.B., New York University, 1941	
D.D.S., Temple, 1944	
Santamarina, Luis Garcia	Havana, Cuba
D.D.S., Havana (Cuba), 1945	
Swift, James, Jr.	Clarendon, Texas
D.D.S., Baylor, 1945	
Zeisse, Carl	Narberth, Pa.
D.D.S., Pennsylvania, 1921	

SPECIAL STUDENTS

Caviness, Radcliffe Lewis	Dallas, Texas
A.B., Duke, 1931	
D.D.S., Atlanta Southern College, 1941	
Chen, Hua	China
D.D.S., West China Union, 1930	
Palm, Gustav Arne	Hittarp, Sweden
L.D.S., Stockholm (Sweden), 1939	
Yalovitz, Marvin Sigmund	Anniston, Alabama
D.D.S., Maryland, 1943	

SUMMARY

Graduates—June, 28, 1945.....	45
Fourth Year—March, 1946.....	43
Third Year—June, 1947.....	44
Second Year—June, 1948.....	47
First Year—June, 1949.....	21
Candidates for the Certificate of Proficiency..	20
Special postgraduate students.....	4
Total.....	224

CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for 1946-47 may be obtained from the Secretary of the University.

1946

March	25	Monday, to March 27, Wednesday. Registration, including payment of fees, for third and fourth year classes.
March	28	Thursday. New academic year begins for third and fourth year classes. Conferring of degrees.
April	1	Monday, and April 2, Tuesday. Registration, including payment of fees, for candidates for certificate of training in Orthodontics.
May	29	Wednesday. Last day of classes for first year class.
May	30	Thursday, to June 8, Saturday. Final examinations for first year class.
June	3	Monday, and June 4, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Oral Surgery.
August	19	Monday, and August 20, Tuesday. Registration, including payment of fees, for candidates for certificate of training in Orthodontics.
September	9	Monday, to September 11, Wednesday. Registration, including payment of fees, for first and second year classes.
September	12	Thursday. Classes begin.
September	16	Monday, to September 18, Wednesday. Registration, including payment of fees, for candidates for certificate of training in Oral Surgery and in General Restorative Dentistry.
September	30	Monday, and October 1, Tuesday. Registration, including payment of fees, for candidates for certificate of training in Orthodontics. Renewal registration, including payment of fees, for candidates for certificate of training in Oral Surgery.
October	12	Saturday. Columbus Day. Not a holiday.
November	5	Tuesday. Election Day. Holiday.
November	28	Thursday. Thanksgiving Day. Holiday.
December	5	Thursday, to December 7, Saturday. Renewal registration, including payment of fees, for third and fourth year classes.
December	23	Monday, to

1947

January	5	Sunday, Christmas Holidays.
January	13	Monday, and January 14, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Oral Surgery.
January	20	Monday, and January 21, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Orthodontics, in Oral Surgery, and in General Restorative Dentistry.
January	23	Thursday, to January 25, Saturday. Renewal of registration, including payment of fees, for first and second year classes.
February	12	Wednesday. Alumni Day. Not a holiday.
February	20	Thursday, and February 21, Friday. Renewal registration, including payment of fees, for candidates for certificate of training in Orthodontics (Class of December 1947).
February	22	Saturday. Washington's Birthday. Holiday.
March	30	Sunday, to April 6, Sunday, inclusive. Easter holidays.
March	31	Monday, and April 1, Tuesday. Registration, including payment of fees, for candidates for certificate of training in Orthodontics.
April	15	Tuesday. Last day for filing application for degree.

1947

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| May | 19 | Monday, to May 20, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Oral Surgery. |
| May | 24 | Saturday. Last day of classes for first, second, third and fourth year classes. |
| May | 26 | Monday, to June 7, Saturday. Final examinations. |
| May | 30 | Friday. Memorial Day. Holiday. |
| June | 3 | Tuesday. Conferring of degrees. |
| July | 14 | Monday, and July 15, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Orthodontics (Class of December, 1947). |
| August | 18 | Monday, and August 19, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Orthodontics. |

1946							1947							1947						
JULY							JANUARY							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
....	1	2	3	4	5	6	....	....	....	1	2	3	4	....	....	1	2	3	4	5
7	8	9	10	11	12	13	5	6	7	8	9	10	11	6	7	8	9	10	11	12
14	15	16	17	18	19	20	12	13	14	15	16	17	18	13	14	15	16	17	18	19
21	22	23	24	25	26	27	19	20	21	22	23	24	25	20	21	22	23	24	25	26
28	29	30	31	....	....	....	26	27	28	29	30	31	....	27	28	29	30	31	....	....
AUGUST							FEBRUARY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
....	....	....	....	....	1	2	....	....	....	....	....	....	1	....	....	....	....	....	1	2
4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9
11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16
18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23
25	26	27	28	29	30	31	23	24	25	26	27	28	....	24	25	26	27	28	29	30
....	....	....	....	....	....	....	....	....	....	....	....	....	....	31	....	....	....	....	....	....
SEPTEMBER							MARCH							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	....	....	....	....	....	....	1	....	1	2	3	4	5	6
8	9	10	11	12	13	14	2	3	4	5	6	7	8	7	8	9	10	11	12	13
15	16	17	18	19	20	21	9	10	11	12	13	14	15	14	15	16	17	18	19	20
22	23	24	25	26	27	28	16	17	18	19	20	21	22	21	22	23	24	25	26	27
29	30	....	....	....	....	....	23	24	25	26	27	28	29	28	29	30	....	....	....	....
....	....	....	....	....	....	....	30	31	....	....	....	....	....	....	....	....	....	....	....	....
OCTOBER							APRIL							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
....	....	1	2	3	4	5	....	....	1	2	3	4	5	....	....	....	1	2	3	4
6	7	8	9	10	11	12	6	7	8	9	10	11	12	5	6	7	8	9	10	11
13	14	15	16	17	18	19	13	14	15	16	17	18	19	12	13	14	15	16	17	18
20	21	22	23	24	25	26	20	21	22	23	24	25	26	19	20	21	22	23	24	25
27	28	29	30	31	....	....	27	28	29	30	....	....	....	26	27	28	29	30	31	....
NOVEMBER							MAY							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
....	....	....	....	....	1	2	....	....	....	....	1	2	3	....	....	....	....	....	....	1
3	4	5	6	7	8	9	4	5	6	7	8	9	10	2	3	4	5	6	7	8
10	11	12	13	14	15	16	11	12	13	14	15	16	17	9	10	11	12	13	14	15
17	18	19	20	21	22	23	18	19	20	21	22	23	24	16	17	18	19	20	21	22
24	25	26	27	28	29	30	25	26	27	28	29	30	31	23	24	25	26	27	28	29
....	....	....	....	....	....	....	....	....	....	....	....	....	....	30	....	....	....	....	....	....
DECEMBER							JUNE							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	....	1	2	3	4	5	6
8	9	10	11	12	13	14	8	9	10	11	12	13	14	7	8	9	10	11	12	13
15	16	17	18	19	20	21	15	16	17	18	19	20	21	14	15	16	17	18	19	20
22	23	24	25	26	27	28	22	23	24	25	26	27	28	21	22	23	24	25	26	27
29	30	31	....	....	....	....	29	30	....	....	....	....	....	28	29	30	31	....	....	....

COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Forty-seventh Series, No. 25

June 14, 1947

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ANNOUNCEMENT OF THE
SCHOOL OF DENTAL AND
ORAL SURGERY
OF THE
FACULTY OF MEDICINE
1947-1948

COLUMBIA-PRESBYTERIAN MEDICAL CENTER

630 WEST 168TH STREET • NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Forty-seventh Series, No. 25

June 14, 1947

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from December for forty-four consecutive issues. Re-entered as second-class matter September 13, 1946, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 12,000—1947.

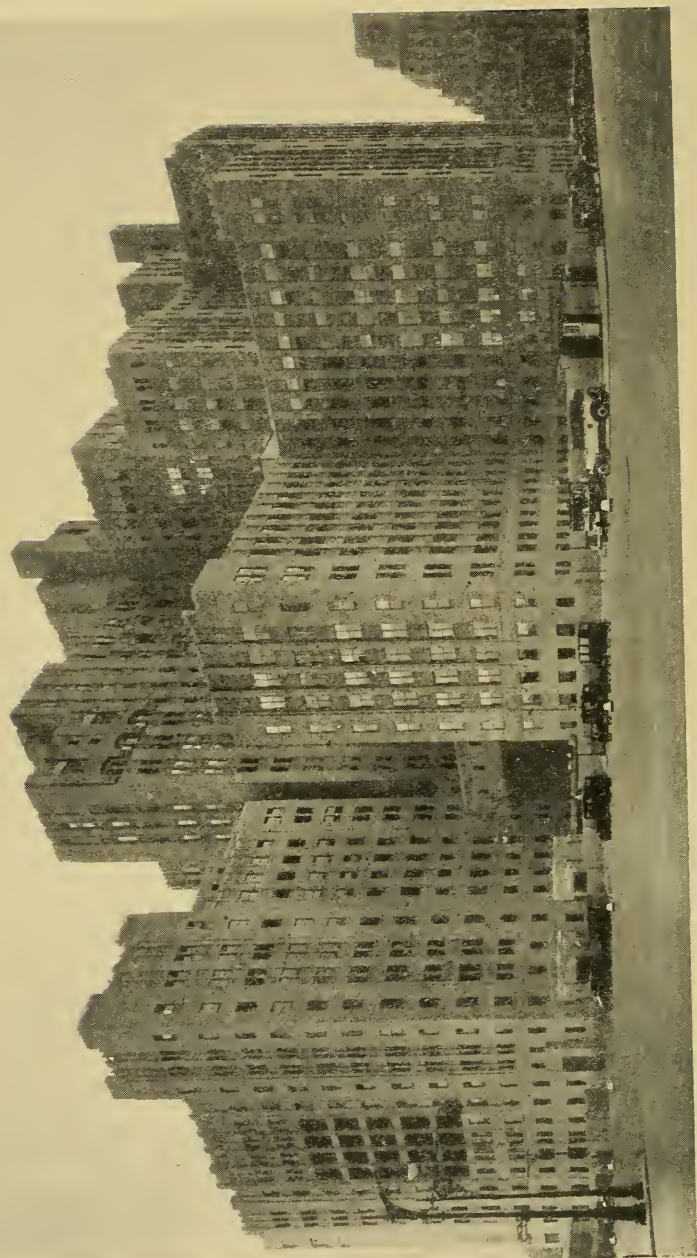
COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3-2500.

ANNOUNCEMENTS

The Announcements of each College or School, and of the Summer Session may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1947-1948

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

FORM OF BEQUEST

To the Trustees of Columbia University in the City of New York I give and bequeath the sum of \$....., to be used by said Trustees for the uses and purposes of said Corporation.

CONTENTS

CONDENSED ACADEMIC CALENDAR	4
FACULTY OF MEDICINE	5
THE SCHOOL OF DENTAL AND ORAL SURGERY	7
Requirements for Admission, Promotion, and Graduation	9
PLAN OF INSTRUCTION	19
COURSES OF INSTRUCTION	21
TEXTBOOKS	28
STUDENT ORGANIZATIONS	30
FACILITIES	31
FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES	33
THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY	34
OFFICERS OF INSTRUCTION	35
REGISTER OF STUDENTS	41
INDEX	46

CONDENSED ACADEMIC CALENDAR

1947

September 8 Monday, to September 10, Wednesday. Registration, including payment of fees for 1st, 2nd, 3rd, 4th year classes.
September 11 Thursday. Classes begin.
November 4 Tuesday. Election Day. Holiday.
November 27 Thursday. Thanksgiving Day. Holiday.
November 28 Friday. End of first trimester.
December 1 Monday. Beginning of second trimester.
December 22 Monday, to

1948

January 4 Sunday. Christmas holidays.
February 23 Monday. Holiday.
February 28 Saturday. End of second trimester.
March 1 Monday. Beginning of third trimester.
Last day for filing applications for degrees.
March 21 Sunday, to March 28, Sunday, inclusive. Easter holidays.
May 22 Saturday. Last day of classes.
May 24 Monday, to May 29, Saturday. Final examinations.
May 31 Monday. Memorial Day. Holiday.
June 1 Tuesday. Conferring of degrees.

FACULTY OF MEDICINE

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 HARRY B. VAN DYKE
 DANIEL E. ZISKIN
 THE DEAN, *ex officio*

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 THOMAS A. MCGOEY, M.S. . . . *Director of University Residence Halls*
 WILLIAM H. MCCASTLINE, M.D. *University Medical Officer*
 ROBERT F. MOORE, A.B. . . . *Director of the University Placement Bureau*

AT SCHOOL OF DENTAL AND ORAL SURGERY

MARY FINNERAN *Assistant to the Bursar*
 MARJORIE MACBAIN, A.B. *Assistant to the Registrar*
 SEYMOUR ROBB, A.B. in L.Š. *Medical Librarian*

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled *A Dental School on University Lines*. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 Mr. James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery, this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and art."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dental and Oral Surgery, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry) .	12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire pre-dental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special

pre-dental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within two weeks after notification of acceptance (see page 12).

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College. Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for dental students:

- | | |
|--|---------|
| (a) University Fee | |
| For all students for each session, or for any part thereof . . . | \$10.00 |
| (b) Tuition Fee | |
| For the course in dentistry for one half an academic year (or equivalent) in the case of a student enrolled for the full course | 300.00 |
| For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes. | |
| (c) Fee for Application | |
| 1. For a degree | 20.00 |
| 2. For a certificate | 10.00 |
| (d) Privileges | |
| 1. Late registration or late application for a degree or certificate or for deficiency or special examinations | 3.00 |
| 2. Deficiency or special examinations | 3.00 |
| 3. Renewal of application for any degree or certificate | 1.00 |
| (e) Student Activities (payable annually) | |
| For all students, <i>Dental Abstracts Journal</i> | 2.00 |
| (f) Case Rental | |
| For sophomores, juniors, and seniors, rental for one instrument case, for each semester | 2.50 |
| (g) Rebates | |
| 1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate. | |
| 2. If a student withdraws from the School a partial return of tuition fee may be authorized by the Registrar. | |
| When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student. | |
| (h) Deposit | 25.00 |
| Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the | |

close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fees for Repeated Courses. Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
	Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. (At present microscopes are difficult to obtain at any price.) Each student should also provide himself with a substage lamp.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Sur-

gery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1946-1947 and can be accepted as applicable in general for the year 1947-1948 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$655.00	\$630.00
Room	260.00	190.00
Board	385.00	350.00
Books	80.00	40.00
Instruments (see below)	300.00	300.00
Laundry	50.00	36.00
	<u>\$1,630.00</u>	<u>\$1,446.00</u>

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to with-

draw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement

a) Unconditionally

b) Conditionally

II. Recommended for readmission to the same class

III. Recommended neither for advancement nor for readmission to the same class

a) Because of failure

b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises

unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective Faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists will be increased from one to two academic years. The requirements for admission are the completion of at least four years of high school work, including certain specified subjects, the attainment of at least eighteen years of age, and the qualifying certificate obtained from the Department of Education of the State of New York. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. The Certificate in Dental Hygiene is granted upon completion of the curriculum.

To be admitted to the Courses for Dental Hygienists which begin on or after September, 1948, the applicant must present at least sixty semester hours of credit (including certain specified courses) from a college or university acceptable to Columbia University. The University has under consideration the possibility of granting a Bachelor of Science degree in Dental Hygiene as well as a Certificate in Dental Hygiene to those students who, having satisfactorily completed sixty semester hours of study (including certain specified courses) in a college or university acceptable to Columbia University, complete the two-year curriculum. For further information address the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1947-1948 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these spe-

cially arranged courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant a certificate of training in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have been graduated from an acceptable school of dentistry in the United States or a foreign country.

The course of study for the certificate of training includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in Oral Surgery, in General Dentistry, and in Periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Secretary of the University, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health is offered by the School of Public Health. The course is open to

graduate dentists. For information regarding course content, registration, and fees apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

NATIONAL BOARD OF DENTAL EXAMINERS

The National Board of Dental Examiners provides an examination in the theory of the science of dentistry. The clinical examination, in every instance, is reserved for the state examining board. A certificate of qualification will be issued to each candidate approved by the National Board when the candidate has been in actual practice for three years after his graduation and has submitted new and satisfactory evidence of his moral and ethical standards of professional conduct. To date the following states have dental laws permitting their licensing authorities to recognize the certificate of qualification of the National Board of Dental Examiners: Alabama, Connecticut, Delaware, Georgia, Indiana, Iowa, Illinois, Kansas, Maine, Minnesota, Nebraska, Oklahoma, Pennsylvania, South Dakota, and Virginia.

Only such undergraduates as may be certified by their respective deans shall be eligible to the National Board examinations. The examinations are held in two separate parts. Part I, which is open to undergraduate candidates who have met the predental requirements and have successfully completed the first two years of work in an approved dental school, consists of a written examination in the following sciences: anatomy, general and dental; bacteriology; physiology; general pathology; histology, general and dental, including embryology; physiological chemistry and metallurgy. Part II, which is open to undergraduate candidates who have passed Part I and have successfully completed the senior year or are eligible for the final examinations of the senior year in an approved dental school, consists of a written examination in each of the following subjects: operative dentistry; materia medica and therapeutics; prosthetic dentistry, including partial and full denture, fixed and removable bridge-work, and crown construction; oral and dental surgery; orthodontia; radiology; jurisprudence and ethics; oral pathology; and anesthesia. Usually the examinations are given twice a year, in January and May. Application should be made to GORDON L. TEALL, D.D.S., Secretary of the National Board of Dental Examiners, Hiawatha, Kansas.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by

number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the technics of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions coöperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practical upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

<i>Subject</i>	<i>Trimester Credits</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FRESHMAN YEAR				
Anatomy				
Embryology	2	20	...	20
Gross	15	60	262	322
Microscopic	8	38	126	164
Neuro	4	60	...	60
Oral	6	18	95	113
Biochemistry	8	35	105	140
Histology, Oral	2	7	61	68
Physiology	10	56	148	204
	55			1,091
SOPHOMORE YEAR				
Bacteriology	7	40	90	130
Crown and Bridge	5	10	110	120
Dental Materials	2	...	55	55
Oral Hygiene	2	20	...	20
Operative Dentistry	9	10	220	230
Pathology	9	40	150	190
Periodontology	1	...	27½	27½
Pharmacology	6	50	30	80
Prosthetic Dentistry	10	20	220	240
Psychiatry	1	10	...	10
Radiology	1	...	27½	27½
Surgery, Oral	2	20	...	20
	55			1,150

<i>Subject</i>	<i>Trimester Credits</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
JUNIOR YEAR				
Anatomy, Applied	1	10	...	10
Bacteriology	1	10	...	10
Crown and Bridge				
Applied Occlusal Dynamics	1	...	27½	27½
Clinic	2	...	55	55
Porcelain	2	...	55	55
Technic	4	10	82½	92½
Diagnosis	4	30	27½	57½
Operative Dentistry	12	10	302½	312½
Orthodontics	4	20	55	75
Pathology, Oral	4	20	55	75
Periodontology	1	...	27½	27½
Prosthetic Dentistry	10	20	220	240
Public Health	1	10	...	10
Radiology	1	...	27½	27½
Surgery, Oral	2	10	27½	37½
Theory and Practice				
Dental History	1	10	...	10
Therapeutics	1	10	...	10
	52			1,132½
SENIOR YEAR				
Crown and Bridge	7	10	165	175
Diagnosis	1	...	27½	27½
Operative Dentistry	13	20	302½	322½
Orthodontics	1	...	27½	27½
Pedodontics	4	10	82½	92½
Periodontology	3	20	27½	47½
Practice of Medicine	5	40	27½	67½
Prosthetic Dentistry	6	10	137½	147½
Surgical Prosthesis	1	...	27½	27½
Surgery, Oral	5	40	27½	67½
Theory and Practice				
Ethics	1	10	...	10
Jurisprudence	1	10	...	10
	48			1,022½

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of homework. For laboratory or clinical work it represents approximately three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on pages 19 and 20 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

Bacteriology 253—Bacteriology and etiology of dental disease. Third trimester, Junior year. 1 credit.

Lectures. Demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of *Diagnosis 212*.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 9 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 12 credits.

Lectures on the application of operative fundamentals to clinical practice. The technic of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 4 credits.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 242—Orthodontic clinic. Junior year. No credit.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year. 1 credit.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 9 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 10 credits.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technic. Sophomore year. 5 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technic. Junior year. 4 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year. 2 credits.

Clinical construction of elementary crown and bridgework.

Prosthetics 207—Porcelain technic. Junior year. 2 credits.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Prosthetics 209—Round wire technic. Junior year. 1 credit.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Prosthetics 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year. 6 credits.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technic stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 8 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lecture and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental hygiene and environment adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 1 credit.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Junior year. 1 credit.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year. 2 credits.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases.

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 5 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in the removal of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective.

Presentation and demonstrations of oral pathological and maxillofacial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct and routine.

Theory and Practice 282—Dental jurisprudence. Senior year. 1 credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Junior year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 284—Senior thesis.

Each senior is required to present a thesis representing original reading, scientific research, or both, to be completed under the immediate supervision of Professor HOLLIDAY and with the help of an adviser in the field selected, and with the final approval of the Research Committee.

Theory and Practice 285—Comprehensive case. Junior and senior years.

Each student is assigned a case for which he performs all the dental services: taking of x-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Junior year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.
Formerly *Pharmacology 250*.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Required: Stedman, *Medical Dictionary*, \$7.50; Cunningham, *Manual of Practical Anatomy*, Vols. II and III, \$8.50; mimeographed *Dissecting Directions*, \$.35; one of the following three: Cunningham, *Textbook of Anatomy*, \$12.00; Gray, *Anatomy*, \$12.00; or Morris, *Human Anatomy*, \$12.00.

Applied anatomy. Required: Shapiro, *Applied Anatomy of the Head and Neck*, \$5.50.

Microscopic anatomy. Required: Bailey, *Textbook of Histology*, \$6.00; mimeographed laboratory manual, \$.35.

Neuroanatomy. Required: Strong and Elwyn, *Human Neuroanatomy*, \$6.00; mimeographed laboratory manual, \$.60.

Oral anatomy. Required: Diamond, *Dental Anatomy*, \$4.50.

Oral histology and embryology. Required: Orban, *Oral Histology and Embryology*, \$6.50.

BACTERIOLOGY. Required: Jordan and Burrows, *Textbook of Bacteriology*, \$7.00.

BIOCHEMISTRY. Required: Harrow, *Textbook of Biochemistry*, \$4.50; Karshan, *Laboratory Manual*, \$1.50.

DENTAL THERAPEUTICS. Required: *Accepted Dental Remedies*, Council on Dental Therapeutics, American Dental Association, \$1.50.

DIAGNOSIS. Recommended but not required: *Differential Diagnosis of Mouth Diseases*, \$4.00; *Handbook of Pulp Symptomatology and Diagnosis*, \$1.15.

MEDICINE. Required: Yater, *Fundamentals of Internal Medicine*, \$10.00.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, Vols. II and III, \$5.50 each.

ORTHODONTICS. Recommended for collateral reading: Salzman, *Principles of Orthodontics*, \$10.00.

PATHOLOGY. Required. One of the following four: Boyd, *Textbook of Pathology*, \$10.00; Karsner, *Textbook of Pathology*, \$10.00; MacCallum, *Textbook of Pathology*, \$10.00; Moore, *Textbook of Pathology*, \$10.00.

ORAL PATHOLOGY. Required: Cahn, *Pathology of the Oral Cavity*, \$5.50.

PEDODONTICS. Required: McBride, *Juvenile Dentistry*, \$6.00.

PHARMACOLOGY. Required: Goodman and Gillman, *Pharmacological Basis of Therapeutics*, \$12.50; mimeographed laboratory manual, \$.50.

PROSTHETIC DENTISTRY. Required: Anthony, *American Textbook of Prosthetic Dentistry*, \$11.00; Swenson, *Complete Dentures*, \$10.00; Tylman, *Crown and Bridge Prosthesis*, \$10.00; U. S. Government Printing Office, *Physical Properties of Dental Materials*, Bureau of Standards Circular C433, \$.75; Young et al, *Syllabus*, \$3.75.

PSYCHIATRY. Required: Noyes, *Modern Clinical Psychiatry*, \$5.00; Gellhorn, *Autonomic Regulations*, \$5.50.

RADIOLOGY. Required: Ennis, *Dental Roentgenology*, \$6.50.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; Berger, *Principles and Technique of the Removal of Teeth*, \$7.50. Recommended but not required: Parker, *Synopsis of Traumatic Injuries of the Face and Jaws*, \$4.50; Stout, *Human Cancer*, \$10.00; Homan, *Textbook of Surgery*, \$8.00.

DICTIONARY. Recommended but not required: W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*, \$6.50.

STUDENT ORGANIZATIONS

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which sophomores, juniors, and seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

DENTAL ABSTRACTS

The Dental Abstracts Journal is an official publication of the School of Dental and Oral Surgery of the Faculty of Medicine, written and composed by the Dental Abstracts Society, an undergraduate organization, and published by Columbia University Press. This periodical is issued five times yearly and is received by libraries, hospitals, dental, medical, and public health schools, organizations and individuals throughout the world.

With the active guidance and coöperation of the officers of instruction of the school, undergraduate students read and abstract the current dental and related literature for publication in this journal. Undergraduate participation in this program is urged not only to assure continuation of this worthy project but, more important, to acquaint the student intimately with the recent advances in dental science and to gain sound principles toward the proper evaluation of the current literature.

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (1) the use of names in which the name of the University is embodied or suggested, and (2) the use of University rooms

or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and the nature of any affiliation or connection with non-University organizations.

FACILITIES

LIBRARY

The library is one of the most vital adjuncts of the School. Second largest medical library in the United States connected with a school of medicine and dentistry, it performs three major functions, namely: provides a sound collection in the historical literature of most branches of medicine; serves students and faculty alike through keeping up with current literature (both texts and journals) and by acquiring unusual and sometimes obscure material; and through a well-developed inter-library loan system, encourages and assists in advanced research.

The library, with seating accommodations for 250 readers, now contains more than 125,000 volumes and about 10,000 pamphlets and occupies a part of three lower floors of the main administration building of the Medical Center. A trained library staff provides specialized services to meet the needs of students, residents, faculty, and research workers of the combined Medical School, Dental School, School of Public Health, School of Nursing, and hospital units.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,200 current journals, and nearby are shelved files of reviewing, indexing, and abstracting services as well as a selection of the more important journals. All other journals are shelved in the stacks.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University Libraries, Gymnasium, and other activities.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and legal holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds its religious expression and practice through St. Paul's Chapel and Earl Hall, and the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University is assisted by three Religious Counselors: the Rev. WILLIAM G. COLE, Counselor to Protestant students; the Rev. JOHN K. DALY, Counselor to Roman Catholic students; and RABBI ISIDOR B. HOFFMAN, Counselor to Jewish students. Daily services are held in the Chapel. A number of student religious organizations are established to which the Chaplain and Counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the Counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, 500 Riverside Drive, at West 124th Street, a privately endowed organization with resident and nonresident facilities for men and women students from all parts of the world, including the United States. Coffee shop and cafeteria service. Address Committee on Admissions, International House, 500 Riverside Drive, New York 27, N. Y.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on the second floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a. m. to 6 p. m. daily; during the first days of the opening session, until 10 p. m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, published by Columbia University Press. The book also contains an account of the University's history and traditions.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

See also "Graduate Courses in the Basic Sciences" on page 16.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Grover C. Beckwith-Ewell.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in Pedodontics has been established by the Class of 1929.

STUDENT AID

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

THE ASSOCIATION OF THE ALUMNI OF THE
SCHOOL OF DENTAL AND ORAL SURGERY

President, JULIUS HORN

President-elect, MORRIS FIERSTEIN

Vice-President, WILLIAM GIBLIN

Secretary, NATHANIEL DINER

Treasurer, JACK FLYNN

Editor, JOEL FRIEDMAN

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

OFFICERS OF INSTRUCTION

- ¹HAROLD ALEXANDER ABRAMSON *Assistant Professor of Physiology*
A.B., Columbia, 1920; M.D., 1923.
- VIRGINIA APGAR *Associate Professor of Anesthesia*
A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933.
- EDMUND APPLEBAUM *Assistant Professor of Dental Anatomy*
D.D.S., New York College of Dentistry, 1922.
- HENRY ARTHUR BARTELS *Assistant Professor of Dental Pathology*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
- ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
- FRANK E. BEUBE *Assistant Clinical Professor of Dentistry*
L.D.S., D.D.S., Toronto, 1930.
- SAMUEL BIRENBACH *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917.
- HAROLD WILLIAM BROWN *Professor of Parasitology*
A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936.
- LESTER RICHARD CAHN *Associate Professor of Dental Pathology*
D.D.S., New York College of Dentistry, 1917.
- HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1914.
- LOUIS ALEXANDER COHN *Assistant Clinical Professor of Dentistry*
D.D.S., Pennsylvania, 1928.
- WILFRED MONROE COPENHAVER *Associate Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- HOWARD JAMES CURTIS *Associate Professor of Physiology*
B.S., Michigan, 1928; A.M., Swarthmore, 1929; Ph.D., Yale, 1932.
- JOSEPH ANTHONY CUTTITA *Assistant Professor of Dentistry*
A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939.
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (*hon.*), 1931.
- MOSES DIAMOND *Associate Professor of Dental Anatomy*
D.D.S., New York College of Dentistry, 1914.
- ALPHONSE RAYMOND DOCHEZ *John E. Borne Professor of Medical and
Surgical Research*
A.B., Johns Hopkins, 1903; M.D., 1907; Sc.D., New York University, 1925; Yale, 1926;
Western Reserve, 1931.
- BION R. EAST *Associate Dean (Dental and Oral Surgery); Executive
Officer, Department of Dental and Oral Surgery; Professor of Dentistry*
D.D.S., Michigan, 1908.
- ²ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917.
- EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- JOHN WILLIAM FERTIG *Professor of Biostatistics*
A.B., Ursinus, 1931; Ph.D., Minnesota, 1935.

¹ On leave 1947-1948.

² On leave Winter Session.

- JOSEPH E. FLYNN *Assistant Professor of Pathology*
M.D., Iowa, 1938.
- HARRY ALLEN GALTON *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1932.
- ALFRED GELLHORN *Associate Professor of Pharmacology*
M.D., Washington University, 1937.
- ALFRED GILMAN *Associate Professor of Pharmacology*
B.S., Yale, 1928; Ph.D., 1931.
- LEONARD J. GOLDWATER *Professor of Industrial Hygiene*
A.B., Michigan, 1924; M.D., New York University, 1928; Med.Sc.D., 1937; M.S.P.H., 1941.
- JOHN E. GORRELL *Associate Professor of Hospital Administration*
B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930.
- ²MAGNUS INGSTRUP GREGERSEN *Dalton Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- JOHN M. HENDERSON *Professor of Sanitary Science*
C.E., Cornell, 1927.
- MAURICE J. HICKEY *Professor of Oral Surgery*
D.M.D., Harvard, 1922; M.D., Columbia, 1937.
- ISADOR HIRSCHFELD *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1902.
- HOUGHTON HOLLIDAY *Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917; D.D.S. (*hon.*), Montreal, 1945.
- JOSEPH HENRY HOLMES *Assistant Professor of Physiology*
A.B., Amherst, 1930; M.D., Western Reserve, 1934; Med.Sc.D., Columbia, 1941.
- IRVIN LELAND HUNT, JR. *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1923.
- CLAUS W. JUNGEBLUT *Professor of Bacteriology*
M.D., Berne, 1921.
- MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- DANIEL M. KOLLEN *Assistant Clinical Professor of Dentistry*
D.D.S., New York University, 1924.
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914.
- ¹GEORGE FRANK LINDIG *Associate Clinical Professor of Dentistry*
D.D.S., Minnesota, 1924.
- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921.
- EDWARD GERALD MURPHY *Associate Clinical Professor of Dentistry*
D.D.S., Michigan, 1924.
- HARRY STOLL MUSTARD *Associate Dean (Public Health); DeLamar*
Professor of Public Health Practice; Director, School of Public Health
M.D., Medical College of the State of South Carolina, 1911; B.S., College of Charleston, 1914; LL.D., 1938.

¹ On leave 1947-1948.

² On leave Winter Session.

- HARRY NEIVERT *Assistant Clinical Professor of Otolaryngology*
M.D., Buffalo, 1913; M.S. (Med.), Pennsylvania, 1944.
- JOHN LESTER NICKERSON *Associate Professor of Physiology*
B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1935.
- CARL REUBEN OMAN *Professor of Dentistry*
D.D.S., Minnesota, 1914.
- ¹DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island, 1912; D.D.S., Pennsylvania, 1914.
- MAX A. PLEASURE *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1928; M.S.P.H., Columbia, 1941.
- WILLARD COLE RAPPLEYE *Dean, Faculty of Medicine;*
Professor of Medical Economics
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (hon.), Yale, 1922; Sc.D., Trinity (Conn.), 1939.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT *Associate Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- THEODOR ROSEBURY *Associate Professor of Bacteriology*
D.D.S., Pennsylvania, 1923.
- SOLOMON NATHAN ROSENSTEIN *Associate Professor of Dentistry*
B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930.
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922.
- HARRY H. SHAPIRO *Assistant Professor of Anatomy*
D.D.M., Tufts, 1918.
- WILLIAM H. SILVERSTEIN *Assistant Clinical Professor of Dentistry*
D.D.S., Maryland, 1937.
- GEORGE K. SMELSER *Associate Professor of Anatomy*
A.B., Earlham, 1929; Ph.D., Chicago, 1932.
- GILBERT PERCIVAL SMITH *Professor of Dentistry*
D.D.S., Minnesota, 1927.
- HARRY PRATT SMITH *Delafield Professor of Pathology*
A.B., California, 1916; M.S., 1918; M.D., 1921.
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
- LEO STERN, SR. *Clinical Professor of Dentistry*
D.D.S., New York University, 1913.
- BARBARA B. STIMSON *Assistant Professor of Clinical Orthopedic Surgery*
A.B., Vassar, 1919; M.D., Columbia, 1923; Med.Sc.D., 1934.
- LEWIS RIDDELL STOWE *Professor of Dentistry*
D.D.S., Minnesota, 1916.
- ARTHUR CRANSTON TOTTEN *Professor of Dentistry*
D.D.S., Pennsylvania, 1926.
- HARRY BENJAMIN VAN DYKE *Hosack Professor of Pharmacology*
B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923.
- WILLIAM W. WALCOTT *Assistant Professor of Physiology*
A.B., Yale, 1933; Ph.D., Columbia, 1944.
- SHIH-CHUN WANG *Assistant Professor of Physiology*
B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940.

¹ On leave 1947-1948.

- HARRY ALLEN YOUNG *Associate Professor of Dentistry*
D.D.S., Indiana, 1919.
- EDWARD VICTOR ZEGARELLI *Assistant Professor of Dentistry*
A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942.
- JANE DORSEY ZIMMERMAN *Assistant Professor of Speech in*
B.S., Columbia, 1922; A.M., 1923; Ph.D., 1943. *Teachers College*
- DANIEL E. ZISKIN *Professor of Dentistry*
D.D.S., Minnesota, 1917.
-

- ¹HOWARD ARDEN, B.S., D.D.S. *Assistant in Dentistry*
- DAVID B. AST, D.D.S., M.P.H. *Lecturer in Public Health Practice*
- HERBERT DELBERT AYERS, JR., A.B., D.D.S. *Instructor in Dentistry*
- HERBERT BARTELSTONE, B.S., D.D.S. *Research Assistant in Dentistry*
- CARLISLE C. BASTIAN, D.D.S. *Special Lecturer in Dentistry*
- CLARISSA H. BEATTY, A.M. *Instructor in Physiology*
- OSCAR EDWARD BEDER, B.S., D.D.S. *Instructor in Dentistry*
- JAMES WINSTON BENFIELD, A.B., D.D.S. *Assistant in Dentistry*
- IGNAZIO F. BOSCARELLI, B.S., D.D.S. *Assistant in Dentistry*
- STANISLAW H. BRZUSTOWICZ, B.S., D.D.S. *Assistant in Dentistry*
- JACK BUDOWSKY, D.D.S. *Assistant in Dentistry*
- THEODORE M. BUNDRANT, D.D.S. *Assistant in Dentistry*
- EDWARD A. CAIN, B.S., D.D.S. *Instructor in Dentistry*
- ADA R. CLARK, B.S., A.M., Ph.D. *Associate in Bacteriology*
- JOSEPH N. COLANERI, A.B., D.D.S. *Assistant in Dentistry*
- KOURKEN A. DAGLIAN, B.S., D.D.S. *Assistant in Dentistry*
- ROBERT CYRIL DEVINE, B.S., D.D.S. *Instructor in Dentistry*
- INGRITH JOHNSON DEYRUP, A.B., Ph.D. *Instructor in Physiology*
- SOLOMON DISICK, B.S., M.D. *Instructor in Pharmacology*
- DAVID A. DRAGIFF, B.S., D.D.S. *Research Assistant in Anatomy*
- SAMUEL BERGER DRELICH, D.D.S. *Instructor in Dentistry*
- GUSTAV T. DURRER, D.M.D., D.D.S. *Assistant in Dentistry*
- CHARLOTTE FEHLMAN, A.B., A.M., Ph.D. *Special Lecturer in*
Dental Hygiene
- JACOB FEINMAN, B.S., LL.B., D.D.S. *Assistant in Dentistry*
- JOSEPH E. FIASCONARO, B.S., D.D.S. *Assistant in Dentistry*
- WALTER H. FORDHAM, D.D.S. *Research Assistant in Dentistry*
- MARIO A. FRANZONE, D.D.S. *Assistant in Dentistry*
- JACOB S. FRIEDLANDER, D.D.S. *Instructor in Dentistry*
- HERBERT PHILIP FRITZ, B.S., D.D.S. *Instructor in Dentistry*

¹ On leave 1947-1948.

BENJAMIN WILLIAM GLICK, B.S., A.M., M.D. . . .	<i>Instructor in Anatomy</i>
ISIDORE HARRY GOLDBERGER, M.D.	<i>Special Lecturer in Dentistry</i>
AXEL HANSON	<i>Assistant in Dental Technic</i>
ROBERT EDWARD HERLANDS, A.B., D.D.S.	<i>Instructor in Dentistry</i>
JOHN ERIC HILL, A.B., Ph.D.	<i>Lecturer in Dentistry</i>
GEORGE HINDELS, D.D.S.	<i>Instructor in Dentistry</i>
JAMES JAY, D.D.S.	<i>Instructor in Dentistry</i>
HENRY R. JUNEMANN, A.B., D.D.S.	<i>Instructor in Dentistry</i>
MORRIS KAVELLE, B.S., D.D.S.	<i>Instructor in Dentistry</i>
MARY JANE KELLOGG, R.D.H.	<i>Assistant in Dental Hygiene</i>
BERTRAM KLATSKIN, A.B., D.D.S.	<i>Assistant in Dentistry</i>
LEONARD E. KOENIG, A.B., D.D.S.	<i>Assistant in Dentistry</i>
WILLIAM H. LEAK, D.D.S.	<i>Curator of the Museum, Dental and Oral Surgery</i>
JULIUS K. LITTMAN, M.D.	<i>Instructor in Anatomy</i>
JOHN J. LUCCA, A.B., D.D.S.	<i>Research Assistant in Dentistry</i>
HARRIET G. MCCORMICK, A.M., Ph.D.	<i>Special Lecturer in Dental Hygiene</i>
CLARE K. MADDEN, D.D.S.	<i>Instructor in Dentistry</i>
ARTHUR H. MERRITT, D.D.S., M.S., Sc.D.	<i>Special Lecturer in Dentistry</i>
HENRY MILCH, A.B., M.D.	<i>Instructor in Anatomy</i>
WILLIAM MILLER, B.S., D.D.S.	<i>Instructor in Dentistry</i>
WILLIAM JOHN MILLER, A.B., D.D.S.	<i>Instructor in Dentistry</i>
SAUL MISHELOFF, D.D.S.	<i>Instructor in Dentistry</i>
WALTER HERMAN MOSMANN, D.D.S.	<i>Special Lecturer in Dentistry</i>
HENRY L. MUELLER, A.B., B.S. in Ed., A.M.	<i>Special Lecturer in Dental Hygiene</i>
ALVIN S. NATHAN, D.D.S., B.S. in Ed., A.M.	<i>Instructor in Dentistry</i>
FERDINAND G. NEUROHR, D.D.S.	<i>Special Lecturer in Dentistry</i>
STANLEY F. NIEF, A.B., D.D.S.	<i>Assistant in Dentistry</i>
ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S.	<i>Special Lecturer in Dentistry</i>
HOWARD J. ROGERS	<i>Instructor in Dental Technic</i>
FRED ROTHENBERG, M.D., D.D.S.	<i>Instructor in Dentistry</i>
LOUIS SAPORITO, D.D.S.	<i>Instructor in Dentistry</i>
WILLIAM J. SAVOY, B.S., D.D.S.	<i>Instructor in Dentistry</i>
SAUL SCHLUGER, D.D.S.	<i>Assistant in Dentistry</i>
BOAZ SHATTAN, A.B., D.D.S.	<i>Assistant in Dentistry</i>
HAROLD SHERMAN, B.S., D.D.S.	<i>Assistant in Dentistry</i>
HERBERT F. SILVERS, B.S., D.D.S.	<i>Research Associate in Dentistry</i>
GEORGE STEIN, M.D., D.M.D.	<i>Research Associate in Dentistry</i>
WALTER W. STEVENS, D.D.S.	<i>Instructor in Dentistry</i>

FERDINAND A. STEWART, JR., A.B., D.D.S. . . . *Instructor in Dentistry*
 FRANCES AGNES STOLL, R.D.H., B.S., A.M. . . *Instructor in Dental Hygiene*
 HARRY STRUSSER, D.D.S. *Special Lecturer in Dentistry*
 BENJAMIN TENENBAUM, B.S., D.D.S. . . . *Research Assistant in Dentistry*
 WILLIAM A. THEMANN, D.D.S. *Assistant in Dentistry*
 NATALIA TUPIKOVA, Ph.B. *Assistant in Pharmacology*
 WILLIAM A. VERLIN, A.B., D.D.S. *Assistant in Dentistry*
 GLENN H. WHITSON, D.D.S. *Instructor in Dentistry*
 JACOB M. WISAN, D.D.S., M.S.P.H. . . *Lecturer in Public Health Practice*
 FREDRICK F. YONKMAN, A.B., Ph.D., M.D. . . *Lecturer in Pharmacology*

CLINICAL ASSISTANTS

JUNIUS B. AGNELLI, B.S., D.D.S.	JOSEPH M. MEDAGLIO, B.S., D.D.S.
HAROLD E. BRENNAN, D.D.S.	DAVID MOSSBERG, D.D.S.
FRANK E. DIXON, A.B., B.S., D.D.S.	HENRY I. NAHOUM, A.B., D.D.S.
JOHN J. DOLCE, B.S., D.D.S.	WILBUR PREZZANO, B.S., D.D.S.
HENRY ELLISON,	IRVING D. RASKIN, D.D.S.
B.S., D.D.S., M.S.P.H.	NATHANIEL RATTNER, D.D.S.
LOUIS HAASE, D.D.S.	JULIAN SCHROFF, B.S., D.D.S.
STANLEY S. HELLER, B.S., D.D.S.	PAUL C. SEXAUER, B.S., D.D.S.
LEONARD HIRSCHFELD, A.B., D.D.S.	LEO STERN, JR., A.B., D.D.S.
HAROLD C. KILPATRICK, D.D.S.	IRWIN TEKULSKY, D.D.S.
ALEXANDER LEFF, D.D.S.	VINCENT D. VARALLO, B.S., D.D.S.
EDWARD S. LUBOJA, D.D.S.	STANLEY W. VOGEL, D.D.S.
IRWIN D. MANDEL, B.S., D.D.S.	LESTER W. WINTER, B.S., A.M., D.D.S.
FRANCIS J. McDONOUGH, D.D.S.	DAVID ZEISLER, B.S., D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

SAMUEL BIRENBACH, *Director**Attending Dental Surgeons*

ADOLPH BERGER

GILBERT P. SMITH

DANIEL E. ZISKIN

CARL R. OMAN

LEWIS R. STOWE

Associate Attending Dental Surgeons

LESTER R. CAHN

SOLOMON N. ROSENSTEIN

JOSEPH SCHROFF

Assistant Attending Dental Surgeons

OSCAR E. BEDER

EDWARD A. CAIN

EDWARD V. ZEGARELLI

FRANK E. BEUBE

WILLIAM J. SAVOY

ALBIN R. SEIDEL, *Consultant*

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., *Assistant Attending Surgeon*

REGISTER OF STUDENTS

GRADUATES—CLASS OF MARCH 28, 1946

Archer, William Harold A.B., Fordham, 1943	New York City	Moss, Melvin Lionel A.B., New York University, 1942	New York City
Arden, Howard Anthony B.S., Fordham, 1943	New York City	Olinger, Donald Sundell Pennsylvania	Glen Ridge, N. J.
Ballin, Bert A.B., Oberlin, 1943	New York City	Pane, John Thomas B.S., Fordham, 1942	New York City
Cali, Vincent B.S., College of the City of New York, 1943	New York City	Piro, John Donald Fordham	New York City
Campbell, Paul Stine Redlands	Redlands, Calif.	Rechter, Alfred B.S., College of the City of New York, 1943	New York City
Chnapko, Victor Peter B.S., Long Island, 1942	New York City	Rechter, Elaine Wishengrad Brooklyn Illinois	New York City
Della Rocca, Vincent Paul New York University	New York City	Schonberg, Leon B.S., College of the City of New York, 1944	New York City
De Vito, Joseph John A.B., Columbia, 1943	Brooklyn, N. Y.	Schultz, Wilbert James, Jr. A.B., Hofstra, 1939	New York City
Earnest, Franklin Arthur A.B., New York University, 1943	New York City	Schustak, Robert Leslie Rockaway Beach, N. Y. B.S., New York University, 1943	New York City
Ellison, Solon Arthur B.S., College of the City of New York, 1942	New York City	Shapiro, Robert Leonard Vermont	Springfield, Mass.
Elvers, Walter Barton A.B., Columbia, 1946	New York City	Smith, Roger Frederick A.B., Holy Cross, 1943	Manhasset, N. Y.
Fitz-Gibbon, John Hamilton Providence	Holyoke, Mass.	Sommer, Gordon Alexander B.S., Idaho, 1940 Columbia Medical School	Spokane, Wash.
Garber, Martin Aaron Providence	Providence, R. I.	Stirling, Martin Theodore A.B., Brooklyn, 1943	Brooklyn, N. Y.
Gladue, Wilfred Harold B.S., Rhode Island State, 1943	Woonsocket, R. I.	Stone, Melvin Joseph B.S., Tufts, 1943	Dorchester, Mass.
Halpert, Wesley B.S., College of the City of New York, 1943	New York City	Valinoti, Joseph Robert Fordham	Brooklyn, N. Y.
*Hamberg, Eric Olov L.D.S., Stockholm (Sweden), 1929	Gavle, Sweden	Weissman, Bertram College of the City of New York	New York City
Katz, Lester Edwin New York University	New York City	Winter, Lester Weiss B.S., College of the City of New York, 1929	New York City
Kotch, Raymond Leonard B.S., College of the City of New York, 1943	New York City	A.M., New York University, 1939	
Kutscher, Austin Harrison A.B., New York University, 1945	New York City	Wuthenow, Albert Eugene Fordham Jackson Heights, N. Y.	
McElroy, Joseph Raymond St. John's University	Brooklyn, N. Y.	Zachinsky, Leo A.B., New York University, 1942	New York City
Mandel, Louis A.B., New York University, 1943	New York City	Zingser, Maurice Roy A.B., New York University, 1942	New York City
Minervini, George August A.B., Columbia, 1942	Yonkers, N. Y.		
Morris, Robert Darcy Jackson Heights, N. Y. A.B., Fordham, 1943			

SEPTEMBER 12, 1946 TO JUNE 3, 1947

FOURTH YEAR—CLASS OF JUNE, 1947

Armao, Thomas Anthony Manhattan	Brooklyn, N. Y.
Breheny, John Martin Fordham	New York City
Darling, Maus Vedder A.B., Johns Hopkins, 1936	Stamford, Conn.
* June 4, 1946.	

D'Errico, Louis John A.B., Columbia, 1944	Flushing, N. Y.
Ferber, Irwin New York University	New York City
Ferm, Wilhelm Bror L.D.S., Institute of Dentistry (Stock- holm), 1939	Skoghall, Sweden
Realskolan, Skara (Sweden)	

Jacklyn, Herbert Barre New York City
College of the City of New York

Jenkins, Cornelius Willis New York City
A.B., Lincoln, 1946

Jussim, Julius New York City
B.S., College of the City of New York, 1938
Ohio State University

Lenrow, Maynard Wesley Westport, Conn.
Westminster (Pa.) College
Bethany (W. Va.)

Levine, Charles Lester New York City
College of the City of New York
Wisconsin
Ohio University
Michigan

Loeffler, George Henry Jamaica, N. Y.
Manhattan College

McManus, Philip Patrick, Jr. New York City
A.B., Illinois, 1942
New York University

Menken, George Jackson Heights, N. Y.
Cornell
Queens College

Nebel, Arthur John, Jr. Elizabeth, N. J.
Centre College
Columbia

O'Loughlin, John Joseph
Howard Beach, N. Y.
B.S., Fordham, 1946
Holy Cross
Notre Dame

Pomerantz, Alan Saul Brooklyn, N. Y.
A.B., Brown, 1946
Brooklyn

Russo, Michael Archangel Elizabeth, N. J.
B.S., Fordham, 1942

Savad, Sol Flushing, N. Y.
A.B., Brooklyn, 1939

Schwartz, Stanley Irving
Poughkeepsie, N. Y.
A. B., Bard, 1945

Shapiro, Morton Louis Brooklyn, N. Y.
Willamette University

Sherr, Leonard Allen New York City
College of the City of New York
Wisconsin

Tansky, Joseph Brooklyn, N. Y.
Brooklyn

Tiernan, Vincent Clifford New York City
B.S., Manhattan College, 1942

Vairo, George Gerard New York City
B.S., Fordham, 1942

Vogel, Howard Bernard New York City
College of the City of New York
Bates College
Rochester

Wannen, John Richard Brooklyn, N. Y.
Boston
Middlebury
Tufts

Wiener, Jack Joseph Brooklyn, N. Y.
Brooklyn

Wille, Carl Ludwig Stuart Manor, N. Y.
B.S., Fordham, 1936

POSTGRADUATE STUDENTS
CANDIDATES FOR THE CERTIFICATE IN
TRAINING

General Restorative Dentistry

Bresee, Donald Berne Longmont, Colo.
D.D.S., Southern California, 1943

Daniel, Kenneth Jay New York City
D.D.S., Creighton, 1931

Gaines, Maxwell Livingston New Rochelle, N. Y.
D.D.S., Howard, 1933

Hymans, Vivian Louis Amsterdam, Holland
University of Utrecht, Holland

Levin, Philip Arthur Philadelphia, Pa.
D.D.S., Temple, 1943
A.B., Yale, 1940

Rubin, Norman Jack Newark, N. J.
D.D.S., Emory, 1935

Oral Surgery

Culhane, Maurice Carroll Waterbury, Conn.
D.M.D., Tufts, 1937

Rattner, Nathaniel Astoria, N. Y.
D.D.S., Pennsylvania, 1941

Rutherford, Joseph Herbert Stamford, Texas
D.D.S., Baylor, 1939

Slavin, Mortimer Irvin Kingston, Pa.
D.D.S., Pennsylvania, 1939

Varallo, Dominic Vincent East Paterson, N. J.
B.S., Fordham, 1936
D.D.S., Georgetown, 1940

Wu Ting-Chun Nanking, China
D.D.S., West China Union (China), 1941

Orthodontics

Bauman, Irwin Paul Washington, D. C.
D.D.S., Georgetown, 1939
B.S., George Washington University, 1935

Block, Alfred Utica, N. Y.
A.B., Michigan, 1934
D.D.S., Illinois, 1939

Chen Hua Nanking, China
D.D.S., West China Union (China), 1930

Corn, Arthur M. Jamaica, N. Y.
A.B., New York University, 1935
D.D.S., New York University, 1939

de Villiers, John Frederick Johannesburg, South Africa
L.D.S., Guy's Hospital Dental School
(England), 1937

Goldhush, Alvin Archie Brooklyn, N. Y.
D.D.S., Pennsylvania, 1941
M.S., Pennsylvania, 1942

Granerus, Ragnar Henning Emil Nassjö, Sweden
L.D.S., Swedish Dental Institute
(Sweden), 1933

Handler, Allan A. New York City
B.S., New York University, 1933
D.D.S., Columbia, 1937

Herman, Alan Horace South Orange, N. J.
D.D.S., Maryland, 1942

Hsia Yao-Shan	Hupei, China	Tanz, Norman P.	New York City
D.D.S., West China Union (China), 1936		B.S., College of the City of New York	
Ippolito, Nicholas Anthony	Glendale, N. Y.	D.D.S., Columbia, 1942	
D.D.S., Pennsylvania, 1937		Tessier, Francis Joseph	Albany, N. Y.
Katzman, Irving	Rochester, N. Y.	B.S., Niagara, 1936	
B.S., College of the City of New York, 1937		D.D.S., Buffalo, 1941	
D.D.S., Michigan, 1941		Walley, Kenneth Morgan	McMasterville, Canada
Labas, Charles Frank	Watertown, Conn.	D.D.S., McGill University (Canada), 1941	
D.D.S., Maryland, 1939			
LaFemina, James Joseph	Hampden, Conn.		
D.M.D., Tufts, 1936			
Luban, Joseph	New York City		
B.S., College of the City of New York			
D.D.S., Columbia, 1942			
McLinn, Harry Marvin	Pittsburgh, Pa.		
D.D.S., Howard, 1944			
Messing, Mortimer	Brooklyn, N. Y.		
D.D.S., Columbia, 1941			
Pasternak, Richard	Brooklyn, N. Y.		
A.B., Johns Hopkins, 1938			
D.D.S., Columbia, 1942			
Russ, Curtis Royal	Jackson, Miss.		
D.D.S., Atlanta-Southern College, 1930			
Schoeneman, Bertram B.	Staten Island, N. Y.		
A.B., Alabama, 1935			
D.D.S., Columbia, 1939			
Spengeman, Walter Gerard	New York City		
A.B., Columbia, 1938			
D.D.S., Columbia, 1941			
Stazeski, Theodore Joseph	Hawthorne, N. J.		
D.D.S., Temple, 1941			
Sturtevant, Robert C.	Jamaica, N. Y.		
D.D.S., Washington University (Mo.), 1939			

SPECIAL STUDENTS

Di Salvo, Nicholas Armand	New York City
B.S., College of the City of New York, 1942	
D.D.S., Columbia, 1945	
Perahia, Jacques	Tel Aviv, Palestine
D.D.S., French Faculty of Medicine (Beyrouth, Lebanon), 1941	
Shpuntoff, Harry	New York City
B.S., College of the City of New York, 1939	
D.D.S., Columbia, 1943	
Smith, David Joseph	Brooklyn, N. Y.
D.D.S., Columbia, 1944	

SUMMARY

Fourth Year—June, 1947	44
Third Year—June, 1948	44
Second Year—June, 1949	15
First Year—June, 1950	32
Candidates for the Certificate in Training	38
Special Postgraduate Students	4
Total	177

INDEX

- Academic calendar, 4
Academic discipline, 13
Acceptance fee, 12
Admission, to first year, 9; foreign students, 10
Alumni Association, 34
Anatomy, 21
Anesthesia, *see* Oral Surgery

Bacteriology, 22
Biochemistry, 22
Books, required, 28
Bookstore, 32

Certificate, courses leading to, 16
Combined courses with Columbia College and Barnard, 10
Committee on Dental Education, 6
Courses of instruction, 21
Crown and Bridge, 24
Curriculum, 19

Dental Abstracts, 30
Dental Alumni Association, 34
Dental Hygienists, Courses for, 15
Dental Materials, 22
Diagnosis, 22

Embryology, *see* Anatomy
Expenses, estimated, 12

Faculty of Medicine, 5
Fees, 11
Fellowships, 16
First-year instruction, 19
Foreign students, 10
Fourth-year instruction, 20

General information, 7
Grading of students, 14
Graduate Faculty, admission to, 16
Graduation, requirements for, 14

Histology, *see* Anatomy
Hospital Dental Service, 40

Instruction, courses of, 21; plan of, 19
Instruments, 12

Jarvie Society, 30

Library, 31
Loans, 34

Medical care, 32
Medicine, 22
Microscopes, 12

National Board of Dental Examiners, 17
Neuroanatomy, *see* Anatomy
New York State Dental Examinations, 17

Officers, of the Faculty, 5; of Instruction, 35
Omicron Kappa Upsilon, 30
Operative Dentistry, 23
Oral Diagnosis, 22
Oral Surgery, 26; postgraduate courses, 16
Orthodontics, 23; postgraduate courses, 16

Pathology, 23
Pedodontics, 24
Periodontology, 24; postgraduate courses, 16
Pharmacology, 24
Physiology, 24
Plan of instruction, 19
Postgraduate courses, 16
Presbyterian Hospital Dental Service, 40; Oral Surgery Service, 40
Prizes, 33
Promotion, requirements for, 14
Prosthetic Dentistry, 24
Psychiatry, 25
Public Health for dentists, 16

Radiology, 26
Register of students, 41
Registration, 10
Religious life, 32
Requirements, for admission, 9; for promotion, 14; for graduation, 14
Residence for guests, 32

Scholarships, 33
School of Public Health, 16
Second-year instruction, 19
Student employment, 34
Student Health Service, 32
Student loans, 34
Students, register of, 41
Summary of studies, 19
Surgery, 26; postgraduate courses, 16

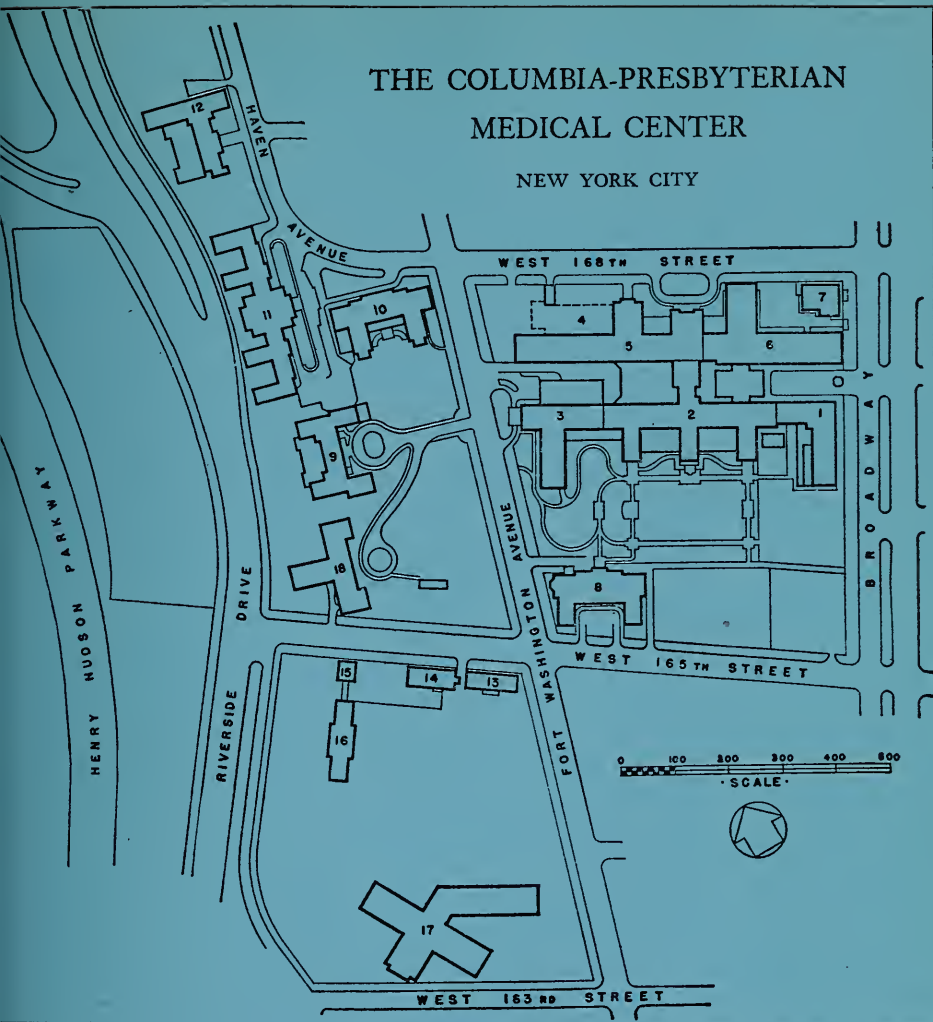
Textbooks, 28
Third-year instruction, 20
Theory and Practice of Dentistry, 26
Tuition fees, 11

University privileges, 31

William Jarvie Society, 30
Withdrawal, 13

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

NEW YORK CITY

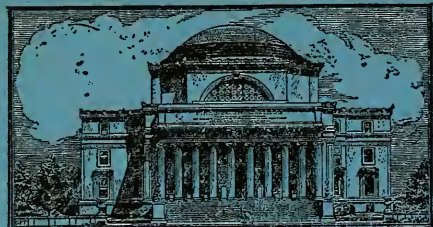


- | | |
|--|---|
| 1. Babies Hospital | 8. Institute of Ophthalmology |
| 2. Presbyterian Hospital | 9. Maxwell Hall |
| Sloane Hospital | 10. Neurological Institute |
| 3. Harkness Pavilion | 11. N. Y. State Psychiatric Institute and Hospital |
| 4. Power plant | 12. Bard Hall |
| 5. College of Physicians and Surgeons | 13, 16. Storage |
| 6. Vanderbilt Clinic | 14. Shops |
| School of Dental and Oral Surgery | 15. Housing |
| 7. Washington Heights Health and Teaching Center, N. Y. City Dept. of Health | 17. Florence Nightingale Hospital (under construction), N. Y. City Dept. of Hospitals |
| School of Public Health | 18. Edward S. Harkness Memorial Hall |

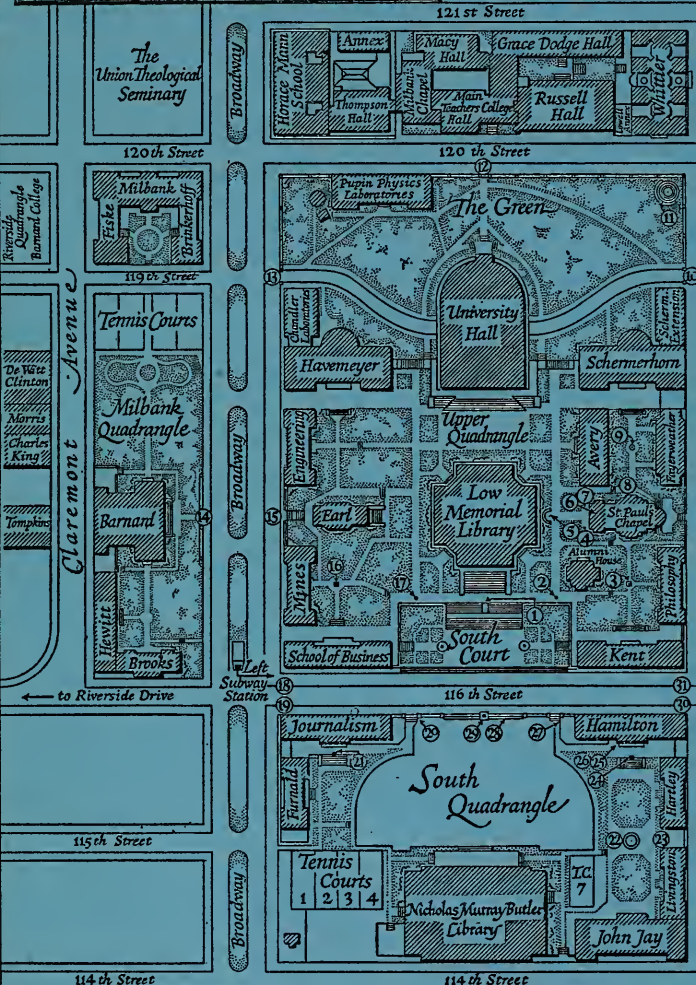
"CROWNED AND SET UPON A HEIGHT"

Plan of Buildings and Grounds

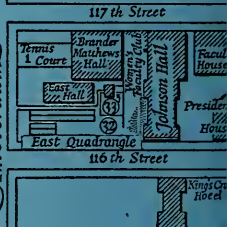
COLUMBIA UNIVERSITY



Horace Mann-Lincoln Scho
425 West 123rd Street J



DIRECTORY—West 117th Street
405-7 Carnegie Endowment
409 Dean's Residence, Teachers College
411 Maison Française
413 Chaplain's Residence
415 Dean, Columbia College
417 Dean, School of Engineering
419 Geological Society of America
421 Parker Institute of International Studies
423 Deutsches Haus
425 College Entrance Examination Board
429 School of International Affairs
431 Russian Institute
433 Government Contract Division
435 Casa Hispánica
Casa Italiana, 1161 Amsterdam Avenue



- | | | |
|-----------------------------|-------------------------------|----------------------------|
| 1 Statue of Alma Mater | 13 Mapes Gates | 22 Van Amringe Memorial |
| 2 Class of 1881 Flag Staff | 14 Helen Hartley Jenkins Geer | 23 1906 Clock |
| 3 Rodin's Penseur | Memorial Gate | 24 Hamilton Statue |
| 4 Hewitt Gates | 15 Class of 1891 Gate | 25 Class of 1880 Gates |
| 5 Class of 1886 Exedra | 16 Meunier's Hammanner | 26 Hewitt Gates |
| 6 Class of '93 Chapel Bell | 1889 Mines Class Gift | 27 Mitchell Memorial |
| 7 Hewitt Gates | 17 Lafayette Post Flag Pole | 28 Rives Memorial Steps |
| 8 Hewitt Gates | 18 Class of 1900 Pylon | 29 Class of 1883 Sun Dial |
| 9 Class of 1889 Well Head | 19 Class of 1890 Pylon | 30 Pine Memorial Pylon |
| 10 Class of 1888 Gate | 20 Classes of 1884 and 1899 | 31 Dwight Memorial Pylon |
| 11 Statue of Great God Pan, | Tablet | 32 Agricultural Greenhouse |
| 12 Class of 1882 Gates | 21 Jefferson Statue | 33 Botany Greenhouse |



COLUMBIA UNIVERSITY
BULLETIN OF INFORMATION

Forty-eighth Series, No. 31

July 24, 1948

made ✓

COPY 2
COLUMBIA UNIVERSITY

ANNOUNCEMENT OF THE
HEALTH SCIENCES

SCHOOL OF DENTAL AND
ORAL SURGERY

OF THE
FACULTY OF MEDICINE

1948-1949

COLUMBIA-PRESBYTERIAN MEDICAL CENTER

630 WEST 168TH STREET • NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Forty-eighth Series, No. 31

July 24, 1948

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from December for forty-four consecutive issues. Re-entered as second-class matter September 13, 1946, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 10,500—1948.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3-2500.

ANNOUNCEMENTS

The Announcements of each College or School and of the Summer Session may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

THE PRINTING OFFICE
COLUMBIA UNIVERSITY PRESS

2960 Broadway



New York, N.Y.

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To: Associate Dean D. R. East
630 West 168th Street
New York 27, N. Y.

Delivery Date Sept. 30, 1948

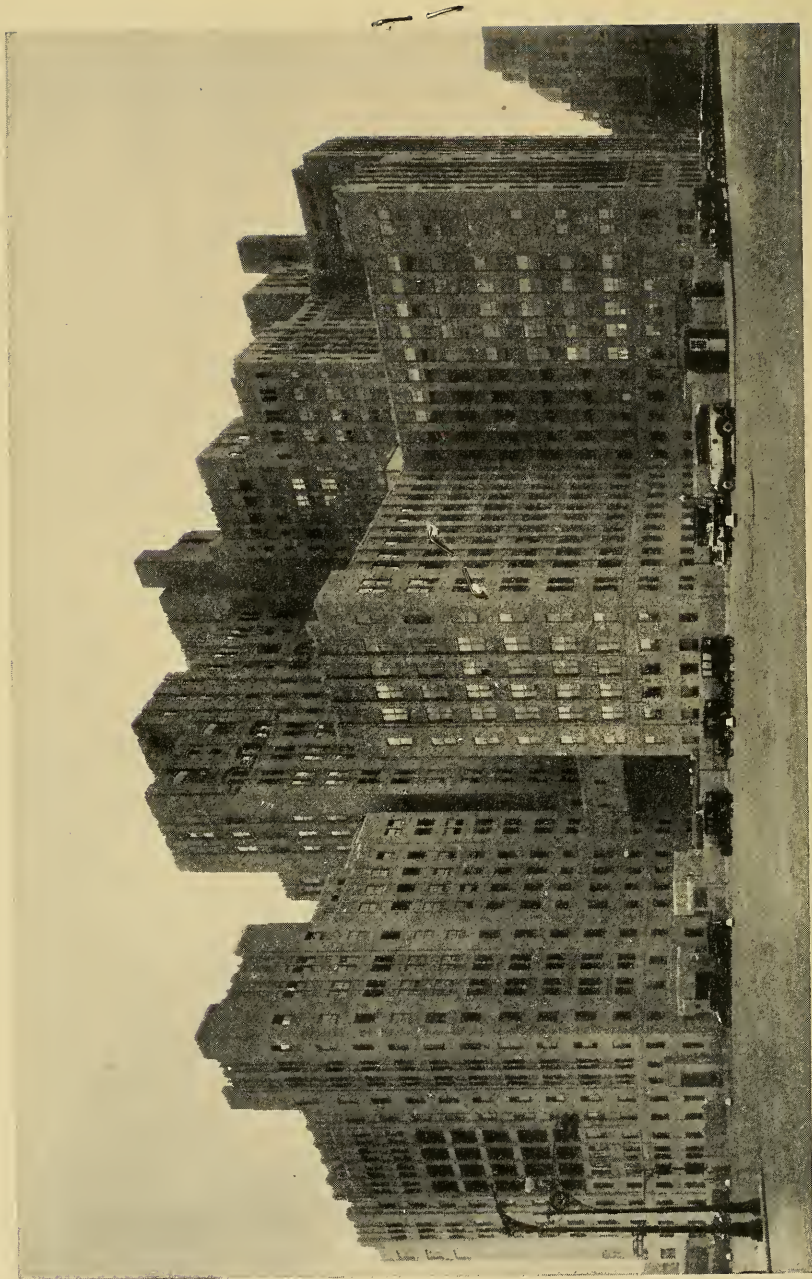
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Announcement - SCHOOL OF DENTAL & ORAL
SURGERY

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THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



~~1948-1949~~

1949-1950

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

FORM OF BEQUEST

To the Trustees of Columbia University in the City of New York I give and bequeath the sum of \$, to be used by said Trustees for the uses and purposes of said Corporation.

CONTENTS

CONDENSED ACADEMIC CALENDAR	4
FACULTY OF MEDICINE	5
THE SCHOOL OF DENTAL AND ORAL SURGERY	7
Requirements for Admission, Promotion, and Graduation	8
PLAN OF INSTRUCTION	17
COURSES OF INSTRUCTION	19
TEXTBOOKS	25
STUDENT ORGANIZATIONS	27
FACILITIES	28
FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES	29
THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY	30
OFFICERS OF INSTRUCTION	31
REGISTER OF STUDENTS	38
INDEX	43

CONDENSED ACADEMIC CALENDAR

1948

September 9 Thursday, to September 11, Saturday. Registration, including payment of fees.
 September 13 Monday. Classes begin.
 November 2 Tuesday. Election Day. Holiday.
 November 25 Thursday. Thanksgiving Day. Holiday.
 November 27 Saturday. End of first trimester.
 November 29 Monday. Beginning of second trimester.
 December 20 Monday, to

1949

January 2 Sunday. Christmas holidays.
 February 12 Saturday. Alumni Day.
 February 22 Tuesday. Washington's Birthday. Holiday.
 February 26 Saturday. End of second trimester.
 February 28 Monday. Beginning of third trimester.
 March 1 Tuesday. Last day for filing applications for degrees.
 April 11 Monday, to April 17, Sunday. Easter holidays.
 May 21 Saturday. Last day of classes.
 May 23 Monday, to May 28, Saturday. Final examinations.
 May 30 Monday. Memorial Day. Holiday.
 June 1 Wednesday. Conferring of degrees.

3 day

For more details see

Academic Calendar for 1949-50
 Effective from 12/16/48

FACULTY OF MEDICINE

OFFICERS OF THE FACULTY

DWIGHT D. EISENHOWER, LL.D. *President of the University*
 WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. *Dean*
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 AURA EDWARD SEVERINGHAUS, B.S., A.M., Ph.D. . . . *Associate Dean; Secretary*
²HARRY STOLL MUSTARD, B.S., M.D., LL.D. . . . *Associate Dean (Public Health)*
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EDMUND P. FOWLER, JR.	LAWRENCE W. SLOAN
ANGUS M. FRANTZ	ALAN DE FOREST SMITH
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HOUGHTON HOLLIDAY	RANDOLPH WEST
GEORGE H. HUMPHREYS, II	ABNER WOLF
CLAUS W. JUNGELUT	

¹ On leave 1948-1949.

² On leave Winter Session.

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 ' AURA EDWARD SEVERINGHAUS, *ex officio*
 JOHN B. TRUSLOW, *ex officio*

ADMINISTRATIVE STAFF

AT SCHOOL OF DENTAL AND ORAL SURGERY

- | | |
|---------------------------|---------------------------------------|
| PAULINE MOUND, B.A. | Administrative Assistant |
| MARY FINNERAN | Assistant to the Bursar |
| ERNA W. OCHART | Assistant to the Registrar |
| ESTELLE BRODMAN, M.S. | Assistant Librarian |
| THOMAS P. FLEMING, M.S. | LIBRARIAN |
- ¹ On leave 1948-1949.

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled *A Dental School on University Lines*. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coördination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 Mr. James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery, this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and art."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dentistry, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by

the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire pre-dental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special pre-dental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within two weeks after notification of acceptance (see page 11).

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a

professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College. Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed for dental students:

(a) University Fee

For all students for one academic year, or for any part thereof, payable in two installments \$20.00

(b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments 750.00
~~600.00~~
 For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

- (c) Fee for Application
For a degree *due 5 per yr* \$20.00
- (d) Privileges
1. Late registration or late application for a degree or for deficiency or special examinations 3.00
2. Deficiency or special examinations 3.00
3. Renewal of application for any degree 1.00
- (e) Student Activities (payable annually)
For all students, *Dental Abstracts Journal* 2.00
- (f) Student Health Service Fee
This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.
For all students, per academic year 20.00
- (g) Case Rental
For sophomores, juniors, and seniors, rental for one instrument case, for one academic year, payable in two installments *9.75 per yr* 5.00
- (h) Rebates
1. The University fee and the fee for application for any degree shall not be subject to rebate.
2. If a student withdraws from the School a partial return of tuition fee may be authorized by the Registrar.
3. When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.
- (i) Deposit 25.00
Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fees for Repeated Courses. Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the Univer-

sity of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
	Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. (At present microscopes are difficult to obtain at any price.) Each student should also provide himself with a substage lamp.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1947-48 and can be accepted as applicable in general for the year 1948-49 unless national economic changes require their alteration.

	Average	Minimum
Tuition and fees	\$675.00	\$650.00
Room	330.00	190.00
Board	385.00	350.00
Books	100.00	65.00
Instruments (see below)	300.00	300.00
Laundry	75.00	35.00
	<hr/>	<hr/>
	\$1,865.00	\$1,590.00
	2,090.	1,815.

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS ✓ OK

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student

registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

WITHDRAWAL ✓ OK

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement
- II. Recommended for readmission to the same class
- III. Recommended neither for advancement nor for readmission to the same class
 - a) Because of failure
 - b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION OK

miss 0
In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

OK
An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective Faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS OK

Miss Hall OK
In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects, including satisfactory courses in English, biological science or chemistry, and sociology or psychology, complete the course of instruction in the field of Dental Hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate will be secured by the School. Wherever possible, a personal interview is required before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of 60 semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

English	6 semester hours
Biological science or chemistry.	3 semester hours
Sociology or psychology	3 semester hours

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than 8 credits of the 60 credits required for admission will be considered for matriculation on the condition that the 8 credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Dean, School of Dental and Oral Surgery, 630 West 168 Street, New York 32, N. Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1948-1949 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these specially arranged courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant a certificate of training in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have been graduated from an acceptable school of dentistry in the United States or a foreign country.

The course of study for the certificate of training includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in General Restorative Dentistry, in Oral Diagnosis and Roentgenology, in Oral Surgery, in Orthodontics, in Pedodontics, and in Periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Secretary of the University, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the technics of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions coöperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practical upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1948-1949

<i>Subject*</i>	<i>Trimester Credits</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FIRST YEAR				
Anatomy				
Embryology 152 <i>F</i>	1	16	...	16
Gross 151 <i>FS</i>	13	50	241	291
Microscopic 150 <i>FS</i>	8	42	126	168
Neuro 153 <i>T</i>	4	30	36	66
Oral 101 <i>ST</i>	5	19	104	123
Biochemistry 150 <i>ST</i>	8	39	128	167
Histology, Oral 115 <i>ST</i>	2	7	65	72
Physiology 150 <i>FS</i>	11	56	191	247
	52			1,150

* Letter following course number designates trimester: *F* is first, *S* is second, and *T* is third.

<i>Subject*</i>	<i>Trimester Credits</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
SECOND YEAR				
Bacteriology 151 <i>F</i> and 152 <i>F</i>	7	43	99	142
Crown and Bridge 105 <i>ST</i>	6	10	165	175
Dental Materials 126 <i>FS</i>	2	10	34	44
Operative Dentistry 131 <i>FST</i>	8	20	197	217
Oral Hygiene 122 <i>T</i>	2	20	...	20
Pathology 150 <i>FS</i>	9	50	130	180
Periodontology 151 <i>T</i>	1	...	30	30
Pharmacology 150 <i>ST</i>	6	55	33	88
Prosthetic Dentistry 157 <i>FST</i>	9	20	209	229
Psychiatry 150 <i>S</i>	1	11	...	11
Theory and Practice				
Dental History 283 <i>F</i>	1	10	...	10
Therapeutics 286 <i>T</i>	1	10	...	10
	53			1,156
THIRD YEAR				
Anatomy, Applied 252 <i>S</i>	1	10	...	10
Crown and Bridge				
Technic 205 <i>F</i> and 207 <i>F</i>	3	...	83	83
Clinic 206 <i>ST</i>	5	10	110	120
Applied Occ. Dynamics 212 <i>T</i>	1	...	30	30
Diagnosis 212 <i>FST</i>	4	30	30	60
Operative Dentistry 233 <i>FST</i>	10	10	245	255
Orthodontics 241 <i>F</i>	3	20	59	79
Pathology, Oral 246 <i>FS</i>	4	20	59	79
Periodontology 251 <i>S</i>	1	...	30	30
Practice of Medicine 278 <i>ST</i>	5	40	22	62
Prosthetic Dentistry 260 <i>FST</i> and 261 <i>FST</i>	8	20	173	193
Radiology 267 <i>F</i>	1	...	30	30
Surgery, Oral 270 <i>FT</i>	2	10	30	40
	48			1,071
FOURTH YEAR				
Crown and Bridge 210 <i>FST</i> and 211 <i>FST</i>	6	10	142	152
Diagnosis 213 <i>F</i>	1	...	30	30
Diagnosis Seminar 214 <i>S</i>	0	...	30	30
Orthodontics 243 <i>FST</i>	1	...	30	30
Operative Dentistry 234 <i>FST</i>	13	20	328	348
Pedodontics 202 <i>FST</i>	4	10	83	93
Periodontology 252 <i>FS</i> and 253 <i>FS</i>	3	20	30	50
Prosthetic Dentistry 263 <i>FST</i> and 264 <i>FST</i>	6	10	141	151
Public Health 222 <i>S</i>	2	20	...	20
Surgery, Oral 272 <i>FST</i>	6	40	60	100
Surgery Seminar 274 <i>T</i>	0	...	...	10
Surgical Prosthesis 265	1	...	30	30
Theory and Practice				
Ethics 281 <i>T</i>	1	10	...	10
Jurisprudence 282 <i>ST</i>	0	10	...	10
Comprehensive 285	0	...	...	...
	44			1,064

* Letter following course number designates trimester: *F* is first, *S* is second, and *T* is third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of homework. For laboratory or clinical work it represents approximately three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on pages 17 and 18 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 5 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 13 credits.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 1 credit.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of *Diagnosis 212*.

Diagnosis 214—Diagnosis seminar. Senior year. No credit.

Discussion and differential diagnosis of selected cases.

MEDICINE

Medicine 278—General survey of medicine. Junior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 8 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 10 credits.

Lectures on the application of operative fundamentals to clinical practice. The technic of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 3 credits.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time devoted to the designing and constructing of removable appliances used as space maintainers, habit breakers, and to correct tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Junior year. No credit.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year. 1 credit.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 9 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work ~~on the pathology of the~~ diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures, ~~laboratory~~, and clinical work on ~~personal dental hygiene~~, dental prophylactic technic, and simple periodontia.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia. *as discussed*

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY**Pharmacology 150—General pharmacology. Sophomore year. 6 credits.**

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY**Physiology 150—Mammalian physiology. Freshman year. 11 credits.**

Lectures, conferences, and laboratory.

✓ PROSTHETIC DENTISTRY**Prosthetics 105—Crown and bridge lectures and technic. Sophomore year. 6 credits.**

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 9 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technic. Junior year. 2 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year. 5 credits.

Clinical construction of elementary crown and bridgework.

Prosthetics 207—Porcelain technic. Junior year. 1 credit.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Prosthetics 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year. 5 credits.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technic stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY**Psychiatry 150—Psychopathology. Sophomore year. 1 credit.**

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental hygiene and environment adjustments.

PUBLIC HEALTH**Public Health 222—Principles of public health. Senior year. 2 credits.**

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

RADIOLOGY**Radiology 267—Oral radiology practice. Junior year. 2 credits.**

Lectures, readings, and discussions on topics relative to oral radiology.
Practice in exposing, processing, and mounting dental radiographs.

SURGERY**Surgery 270—Oral surgery. Junior year. 2 credits.**

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 6 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.
Clinical practice in the removal of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. No credit. Required.

Lectures and demonstrations in treatment planning and diagnosis in the field of oral surgery.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct and practice management.

Theory and Practice 282—Dental jurisprudence. Senior year. No credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Sophomore year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 285—Comprehensive case. Senior year.

NO CRE

Each student is assigned a case for which he performs all the dental services: taking of x-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.
Formerly *Pharmacology 250*.

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TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

- ✓ ANATOMY. Gross anatomy: Stedman, Gould, or American, *Medical Dictionary*; Cunningham, *Manual of Practical Anatomy*, Vols. II and III; mimeographed *Dissecting Directions*; ~~one of the following three: Cunningham, *Textbook of Anatomy*; Gray, *Anatomy*; or Morris, *Human Anatomy*~~; one of the following three: Grant, *Atlas of Anatomy*; Truex and Kellner, *Detailed Atlas of the Head and Neck*; or Spalteholz, *Hand Atlas of Human Anatomy*.
- ✓ EMBRYOLOGY: ~~ONE OF THE FOLLOWING THREE: AREY, *DEVELOPMENT AND EVOLUTION OF MAN*; SHAPIRO, *Applied Anatomy of the Head and Neck*, 2ND ED.~~
- ✓ ANATOMY. HAMILTON, *HUMAN EMBRYOLOGY*; OR PATTEN, *HUMAN EMBRYOLOGY*.
- ✓ Microscopic anatomy: Bailey, *Textbook of Histology*; mimeographed laboratory manual.
- ✓ Neuroanatomy: Strong and Elwyn, *Human Neuroanatomy*; mimeographed laboratory manual.
- ✓ Oral anatomy: Diamond, *Dental Anatomy*, 3RD EDITION.
- ✓ Oral histology and embryology: Orban, *Oral Histology and Embryology*.
- ✓ BACTERIOLOGY: Jordan and Burrows, *Textbook of Bacteriology*; or Smith et al., *4TH EDITION; OR DUBOS' BACTERIAL AND INFECTIOUS DISEASES*; Zinsser's *Textbook of Bacteriology*. RIVERS' *VIRAL AND RICKETTSIAL DISEASES*.
- ✓ BIOCHEMISTRY: HARROW, *TEXTBOOK OF BIOCHEMISTRY* 4TH EDITION; Hawk, Oser and Summerson, *Practical Physiological Chemistry*; Karshan, *Laboratory Manual of Biochemistry for Dental Students*.
- ✓ DENTAL ETHICS AND PRACTICE MANAGEMENT: McGehee and Walker, *Dental Practice Management*.
- ✓ DENTAL THERAPEUTICS: Council on Dental Therapeutics, American Dental Association, *Accepted Dental Remedies*.
- ✓ DIAGNOSIS: Ziskin et al., *Differential Diagnosis of Mouth Diseases*, 1ST ED.; Ziskin, *Handbook of Pulp Symptomatology and Diagnosis*, 1943 ED.
- ✓ MEDICINE: YATER, *Fundamentals of Internal Medicine*, 2ND REV. ED.
- ✓ OPERATIVE DENTISTRY: Black, *Operative Dentistry*, Vols. II and III; *Operative Dentistry Syllabus*.
- ✓ ORAL PATHOLOGY: Cahn, *Pathology of the Oral Cavity*.
- ✓ ORTHODONTICS: Salzman, *Principles of Orthodontics*.
- ✓ PATHOLOGY: One of the following four: Boyd, *Textbook of Pathology*; Karsner, *Textbook of Pathology*; MacCallum, *Textbook of Pathology*; or Moore, *Textbook of Pathology*. ANDERSON; MOORE;
- ✓ PEDODONTICS: McBride, *Juvenile Dentistry*.
- ✓ PERIODONTOLOGY: GOLDMAN, *PERIODONTIA* (LATEST ED.)
- ✓ PHARMACOLOGY: Goodman and Gilman, *Pharmacological Basis of Therapeutics*; mimeographed laboratory manual. ONE OF THE FOLLOWING FOUR: GADDUM, *PHARMACOLOGY*; GOODMAN AND GILMAN, *PHARMACOLOGICAL BASIS OF THERAPEUTICS* (1941); SOLLMAN, *PHARMACOLOGY*; OR OLDHAM, KELSEY & GEILING, *ESSENTIALS OF PHARMACOLOGY*.

✓ PHYSIOLOGY: One of the following three: MacLeod's (ed. Bard) *Physiology in Modern Medicine*; Howell's (ed. Fulton) *Textbook of Physiology*; or Best and Taylor, *Physiological Basis of Medical Practice*; **PHYSIOLOGY LABORATORY MANUAL**

✓ PROSTHETIC DENTISTRY: Skinner, ~~The~~ *Science of Dental Materials*; Swenson, *Complete Dentures*; Tylman, *Crown and Bridge Prosthesis*; U. S. Government Printing Office, *Physical Properties of Dental Materials*, Bureau of Standards Circular C433; Young et al., *Syllabus, ON COMPLETE DENTURES*.

✓ PSYCHIATRY: Noyes, *Modern Clinical Psychiatry*; ^{COBB, FOUNDATIONS OF NEURO-PSYCHIATRY} ~~Cellhorn, *Autonomic Regulations*~~.
3RD REVISED ED. 1949.

✓ RADIOLOGY: McCall and Wald, *Clinical Dental Roentgenology*. 2ND ED.

✓ SURGERY: Berger, *Principles and Technique of Oral Surgery*; Berger, *Principles and Technique of the Removal of Teeth*; Parker, *Synopsis of Traumatic Injuries of the Face and Jaw*; ~~Stout, *Human Cancer*~~; Homan, *Textbook of Surgery*.

out of print {
DICTIONARY: W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*.

STUDENT ORGANIZATIONS

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which sophomores, juniors, and seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

DENTAL ABSTRACTS

Dental Abstracts is an official publication of the School of Dental and Oral Surgery of the Faculty of Medicine, written and published by the Dental Abstracts Society, an undergraduate organization. This periodical is issued four times yearly and is received by libraries, hospitals, dental, medical, and public health schools, organizations and individuals throughout the world.

With the active guidance and coöperation of the officers of instruction of the school, undergraduate students read and abstract the current dental and related literature for publication in this journal. Undergraduate participation in this program is urged not only to assure continuation of this worthy project but, more important, to acquaint the student intimately with the recent advances in dental science and to gain sound principles toward the proper evaluation of the current literature.

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the Office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (1) the use of names in which the name of the University is embodied or suggested, and (2) the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and the nature of any affiliation or connection with non-University organizations.

FACILITIES

LIBRARY

The Library occupies parts of the three lower floors in the College building. It is the seventh largest medical library in the country and the second in size among medical school libraries. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, and through interlibrary loans.

The Library contains approximately 140,000 volumes of books and journals, some 5,000 pamphlets and about 2,000 lantern slides on the history of medicine. Nearly 1,400 periodicals are received regularly. A trained library staff is available to aid students, faculty, and research workers in the schools of medicine, dentistry, nursing, public health, and the hospitals of the Medical Center.

The Library is normally open:

Monday-Friday	8:30 A.M.—10:00 P.M.
Saturday	9:00 A.M.— 6:00 P.M.
Sunday	10:00 A.M.— 2:00 P.M.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University Libraries, Gymnasium, and other activities.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service for sick students in Room 2-220 of the Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall, and the ministry of the Chaplain and those associated with

him in his work. The Visiting Chaplain of the University, the Rev. LOUIS WITHERBEE PITT, is assisted by three Religious Counselors: the Rev. J. EDWARD DIRKS, Counselor to Protestant students; the Rev. JOHN K. DALY, Counselor to Roman Catholic students; and Rabbi ISIDOR B. HOFFMAN, Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves with the schedules which are conveniently posted.

A number of student religious organizations are established to which the Chaplain and Counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the Counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write directly to International House, 500 Riverside Drive, New York 27, N. Y.

MEDICAL CENTER BOOKSTORE

For the convenience of students and hospital staff, the University Bookstore maintains a branch in the College of Physicians and Surgeons, Room 2-463, Extension 7265. In addition to medical and dental textbooks, the store carries a full stock of other student equipment and supplies. Substantial savings are effected whenever discounts are permitted by the publishers and manufacturers. The store is open daily all year.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, published by Columbia University Press. The book also contains an account of the University's history and traditions.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two

additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

See also "Graduate Courses in the Basic Sciences" on page 15.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in Pedodontics has been established by the Class of 1929.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in Operative Dentistry.

STUDENT AID

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, MORRIS FIERSTEIN

President-elect, WILLIAM GIBLIN

Vice-President, NATHANIEL DINER

Secretary, MATTHEW LEVIN

Treasurer, JOHN T. FLYNN

Editor, JOEL FRIEDMAN

WILLIAM GIBLIN

NATHANIEL DINER

JOHN T. FLYNN

HERMAN MALTER

GEORGE TRATTNER

BENJAMIN KAMRIN

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

OFFICERS OF INSTRUCTION

- HAROLD ALEXANDER ABRAMSON *Assistant Clinical Professor of Physiology*
A.B., Columbia, 1920; M.D., 1923.
- VIRGINIA APGAR *Associate Professor of Anesthesia* ✓
A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933.
- EDMUND APPLEBAUM *Assistant Professor of Dental Anatomy* ✓
D.D.S., New York College of Dentistry, 1922.
- HENRY ARTHUR BARTELS *Assistant Professor of Dental Pathology* ✓
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
- ADOLPH BERGER *William Carr Professor of Oral Surgery* ✓
D.D.S., New York College of Dentistry, 1909; F.A.C.D., 1927.
- FRANK E. BEUBE *Associate Clinical Professor of Dentistry* ✓
L.D.S., D.D.S., Toronto, 1930.
- SAMUEL BIRENBACH *Associate Professor of Dentistry* ✓
D.D.S., New York College of Dentistry, 1917.
- HAROLD WILLIAM BROWN *Professor of Parasitology* ✓
A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936.
- LESTER RICHARD CAHN *Associate Professor of Dental Pathology* ✓
D.D.S., New York College of Dentistry, 1918.
- HANS THACHER CLARKE *Professor of Biochemistry* ✓
B.Sc., London, 1908; D.Sc., 1914.
- LOUIS ALEXANDER COHN *Assistant Clinical Professor of Dentistry* ✓
D.D.S., Pennsylvania, 1928.
- WILFRED MONROE COPENHAVER *Associate Professor of Anatomy* ✓
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- JOSEPH ANTHONY CUTTITA *Assistant Professor of Dentistry* ✓
A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939.
- SAMUEL RANDALL DETWILER *Professor of Anatomy* ✓
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (*hon.*), 1931.
- MOSES DIAMOND *Professor of Dental Anatomy* ✓
D.D.S., New York College of Dentistry, 1914.
- ALPHONSE RAYMOND DOCHEZ *John E. Borne Professor of Medical and Surgical Research*
A.B., Johns Hopkins, 1903; M.D., 1907; Sc.D., New York University, 1925; Yale, 1926; Western Reserve, 1931.
- BION R. EAST *Associate Dean (Dental and Oral Surgery); Executive Officer, Department of Dental and Oral Surgery; Professor of Dentistry* ✓
D.D.S., Michigan, 1908.
- ADOLPH ELWYN *Associate Professor of Neuroanatomy* ✓
B.S., Columbia, 1915; A.M., 1917.
- EARL THERON ENGLE *Professor of Anatomy* ✓
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.

on leave without salary

- JOHN WILLIAM FERTIG Professor of Biostatistics ✓
A.B., Ursinus, 1931; Ph.D., Minnesota, 1935.
- JOSEPH E. FLYNN Associate Professor of Pathology ✓
M.D., Iowa, 1938.
- HARRY ALLEN GALTON Assistant Clinical Professor of Dentistry ✓
D.D.S., Columbia, 1932.
- ALFRED GILMAN Professor of Pharmacology ✓
B.S., Yale, 1928; Ph.D., 1931.
- LEONARD J. GOLDWATER Professor of Industrial Hygiene ✓
A.B., Michigan, 1924; M.D., New York University, 1928; Med.Sc.D., 1937; M.S.P.H., 1941.
- JOHN E. GORRELL Associate Professor of Hospital Administration ✓
B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930.
- MAGNUS INGSTRUP GREGERSEN Dalton Professor of Physiology ✓
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- JOHN M. HENDERSON Professor of Sanitary Science ✓
C.E., Cornell, 1927.
- ROBERT E. HERLANDS ASSISTANT PROFESSOR OF DENTISTRY ✓
D.D.S. COLUMBIA, 1944
- MAURICE J. HICKEY Professor of Oral Surgery ✓
D.M.D., Harvard, 1932; M.D., Columbia, 1937.
- GEORGE W. HINDELS ASSISTANT CLINICAL PROFESSOR OF DENTISTRY ✓
M.D. VIENNA 1938 D.D.S. COLUMBIA, 1943
- ISADOR HIRSCHFELD Clinical Professor of Dentistry ✓
D.D.S., New York College of Dentistry, 1902
- HOUGHTON HOLLIDAY Professor of Dentistry ✓
A.B., Minnesota, 1915; D.D.S., 1917; D.D.S. (hon.), Montreal, 1945.
- IRVIN LELAND HUNT, JR. Associate Professor of Dentistry ✓
D.D.S., Pennsylvania, 1929.
- CLAUS WASHINGTON JUNGBLUT Professor of Bacteriology ✓
M.D., Berne, 1921.
- MAXWELL KARSHAN Associate Professor of Biochemistry ✓
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- DANIEL M. KOLLEN Assistant Clinical Professor of Dentistry ✓
D.D.S., New York University, 1924.
- BARNET M. LEVY D.D.S. PENNSYLVANIA, 1942 " " " " ✓
M.S. VIRGINIA, 1944
- NOLAN DON CARPENTIER LEWIS Professor of Psychiatry ✓
M.D., Maryland, 1914.
- GEORGE FRANK LINDIG Associate Clinical Professor of Dentistry ✓
D.D.S., Minnesota, 1924.
- EWING CLEVELAND McBEATH Professor of Dentistry ✓
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921.
- SAUL MISHELOFF Assistant Clinical Professor of Dentistry ✓
D.D.S., Columbia, 1922.
- EDWARD GERALD MURPHY Associate Clinical Professor of Dentistry ✓
D.D.S., Michigan, 1924.

On leave Winter Session.

- HARRY STOLL MUSTARD Associate Dean (Public Health); DeLamar ✓
 Professor of Public Health Practice; Director, School of Public Health
 M.D., Medical College of the State of South Carolina, 1911; B.S., College of Charleston, 1914;
 LL.D., 1938.
- ALVIN D. NATHAN ASST. CLINICAL PROFESSOR OF DENTISTRY ✓
 DDS. COLUMBIA 1926 B.S. N.Y.U. 1935 M.A. N.Y.U. 1938
- JOHN LESTER NICKERSON Associate Professor of Physiology
 B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1935.
- CARL REUBEN OMAN Professor of Dentistry ✓
 D.D.S., Minnesota, 1914.
- DOUGLAS BURNETT PARKER *Clinical* Associate Professor of Dentistry ✓
 M.D., Long Island College of Medicine, 1912; D.D.S., Pennsylvania, 1914.
- MAX A. PLEASURE Assistant Professor of Dentistry ✓
 D.D.S., Pennsylvania, 1928; M.S.P.H., Columbia, 1941.
- WILLARD COLE RAPPLEYE VICE-PRES. IN CHG. OF MEDICAL AFF. ✓
 Dean, Faculty of Medicine;
 Professor of Medical Economics
 A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (hon.), Yale, 1922; Sc.D., Trinity (Conn.),
 1939.
- WILLIAM MITCHELL ROGERS Assistant Professor of Anatomy ✓
 B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT Professor of Physiology
 B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- THEODOR ROSEBURY Associate Professor of Bacteriology
 D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN Associate Professor of Dentistry ✓
 B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930.
- WILLIAM J. SAVOY ASST. CLIN. PROF. OF DENTISTRY ✓
 B.S. MANHATTAN 1931 DDS COLUMBIA 1935
- SAUL SCHLUGER Assistant Professor of Dentistry ✓
 D.D.S., Louisville, 1931.
- JOSEPH SCHROFF Associate Professor of Dentistry ✓
 B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922.
- HARRY H. SHAPIRO Assistant Professor of Anatomy ✓
 D.D.M., Tufts, 1918.
- WILLIAM H. SILVERSTEIN Assistant Clinical Professor of Dentistry ✓
 D.D.S., Maryland, 1937.
- GEORGE K. SMELSER Associate Professor of Anatomy ✓
 A.B., Earlham, 1929; Ph.D., Chicago, 1932.
- GILBERT PERCIVAL SMITH Professor of Dentistry ✓
 D.D.S., Minnesota, 1927.
- HARRY PRATT SMITH Delafield Professor of Pathology ✓
 A.B., California, 1916; M.S., 1918; M.D., 1921.
- PHILIP EDWARD SMITH Professor of Anatomy ✓
 B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.

¹ On leave 1948-1949.² On leave Winter Session.

- LEO STERN, SR. *Clinical Professor of Dentistry* ✓
 D.D.S., New York University, 1913.
- * FRANCES A. STOLL *ASSISTANT PROFESSOR OF DENTAL HYG*
 LEWIS RIDDELL STOWE *Professor of Dentistry* ✓
 D.D.S., Minnesota, 1916.
- DAVID TANCHESTER *Clinical Professor of Dentistry* ✓
 D.D.S., New York University, 1921.
- ARTHUR CRANSTON TOTTEN *Professor of Dentistry* ✓
 D.D.S., Pennsylvania, 1926.
- HARRY BENJAMIN VAN DYKE *Hosack Professor of Pharmacology* ✓
 B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923.
- ✓ WILLIAM WELCH WALCOTT *Assistant Professor of Physiology*
 A.B., Yale, 1933; Ph.D., Columbia, 1944.
- ✓ SHIH-CHUN WANG *Associate Professor of Physiology*
 B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940.
- EDWARD VICTOR ZEGARELLI *Associate Professor of Dentistry* ✓
 A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942.
- ~~DANIEL E. ZISKIN~~ *Professor of Dentistry*
 D.D.S., Minnesota, 1917.

- THEODORE ABEL, M.A., Ph.D. *Lecturer in Dental Hygiene*
- HOWARD ARDEN, B.S., D.D.S. *Assistant in Dentistry* ✓
- HERBERT DELBERT AYERS, JR., A.B., D.D.S. *Instructor in Dentistry* ✓
~~BERT BALLIN, A.B., D.D.S.~~ *ASSISTANT IN DENTIS*
- HERBERT BARTELSTONE, B.S., D.D.S. *Research Assistant in Dentistry* ✓
- CARLISLE C. BASTIAN, D.D.S. *Lecturer in Dentistry* ✓
- OSCAR EDWARD BEDER, B.S., D.D.S. *Instructor in Dentistry* ✓
- JAMES WINSTON BENFIELD, A.B., D.D.S. *INSTRUCTOR Assistant in Dentistry* ✓
 DOROTHY R. GLITSTEN, Ph.B. *LECTURER IN DENTAL HYG*
- IGNAZIO F. BOSCARELLI, B.S., D.D.S. *Assistant in Dentistry* ✓
- STANISLAW H. BRZUSTOWICZ, B.S., D.D.S. *Assistant in Dentistry* ✓
- JACK BUDOWSKY, D.D.S. *Instructor in Dentistry* ✓
- THEODORE M. BUNDRANT, D.D.S. *Instructor in Dentistry* ✓
- EDWARD A. CAIN, B.S., D.D.S. *Instructor in Dentistry* ✓
 2 NICHOLAS J. CAVA, D.D.S. *ASST. IN DENTISTRY*
- NEAL W. CHILTON, B.S., D.D.S., M.P.H. *Lecturer in Dentistry* ✓
- ADA R. CLARK, B.S., A.M., Ph.D. *Associate in Bacteriology* ✓
- JOSEPH N. COLANERI, A.B., D.D.S. *Assistant in Dentistry*
 GEORGE B. CROZAT, D.D.S. *LECTURER IN DENTISTRY*
- KOURKEN A. DAGLIAN, B.S., D.D.S. *Assistant in Dentistry* ✓

* STOLL

R.D.H. COLUMBIA 1934
 B.S. COLUMBIA, 1944
 M.A. COLUMBIA, 1945
 E.O.D. COLUMBIA, 1949

ROBERT CYRIL DEVINE, B.S., D.D.S.	Instructor in Dentistry ✓
FRANK E. DIXON, B.A., B.S., D.D.S.	Instructor Assistant in Dentistry ✓
DAVID A. DRAGICE, B.S., D.D.S.	Research Assistant in Dentistry
JOHN J. DOLCE, B.S., D.D.S.	Assistant in Dentistry ✓
SAMUEL BERGER DRELICH, D.D.S.	Instructor in Dentistry ✓
GUSTAV T. DURRER, D.M.D., D.D.S.	Assistant in Dentistry ✓
JOSEPH D. EBY, D.D.S.	LECTURER IN DENTISTRY ✓
JACOB FEINMAN, B.S., LL.B., D.D.S.	Instructor in Dentistry ✓
JOSEPH E. FIASCONARO, B.S., D.D.S.	Instructor Assistant in Dentistry ✓
Barbara Fink	Asst in Dental Hygiene ✓
WALTER H. FORDHAM, D.D.S.	Research Assistant in Dentistry ✓
JACOB S. FRIEDLANDER, D.D.S.	Instructor in Dentistry ✓
HERBERT PHILIP FRITZ, D.D.S.	Instructor in Dentistry ✓
HERMAN GLADSTONE, B.S., M.D.	INST. IN ANATOMY ✓
BENJAMIN WILLIAM GLICK, B.S., A.M., M.D.	Instructor in Anatomy ✓
LOUIS HAASE, D.D.S.	Assistant in Dentistry ✓
EVELYN R. HANNON, R.D.H.	ASSISTANT IN DENTAL HYGIENE ✓
AXEL HANSON	Instructor in Dental Technique ✓
ROBERT EDWARD HERLANDS, A.B., D.D.S.	Instructor in Dentistry ✓
George Hindels, D.D.S.	Asst Clin Profs. Instructor in Dentistry ✓
LEONARD HIRSCHFELD, A.B., D.D.S.	Instructor Assistant in Dentistry ✓
JOHN D. HOGAN, B.S., D.D.S.	INSTRUCTOR IN Assistant in Dentistry ✓
NICHOLAS IPPOLITO, D.D.S.	Assistant in Dentistry ✓
JAMES JAY, D.D.S.	Instructor in Dentistry ✓
JOSEPH E. JOHNSON, D.D.S.	Lecturer in Dentistry ✓
SOLOMON L. KATZ, D.D.S.	Research Assistant in Dentistry ✓
MORRIS KAVELLE, B.S., D.D.S.	Instructor in Dentistry ✓
MARY JANE KELLOGG, R.D.H.	Fink. Assistant in Dental Hygiene
BERTRAM KLATSKIN, A.B., D.D.S.	Assistant in Dentistry ✓
STANLEY L. LANE	INST. IN DENTISTRY ✓
WILLIAM H. LEAK, D.D.S.	Curator of the Museum, Dental and Oral Surgery ✓
EVALD LINDER	INSTRUCTOR IN DENTAL RADIOLOGY TECHNIQUE ✓
JULIUS K. LITTMAN, M.D.	Instructor in Anatomy ✓
JOSEPH LUBAN, B.S., D.D.S.	Research Assistant in Dentistry ✓
JOHN J. LUCCA, A.B., D.D.S.	Research Assistant in Dentistry ✓
HARRIET G. MCCORMICK, A.M., Ph.D.	Lecturer in Dental Hygiene ✓
CLARE K. MADDEN, D.D.S.	Instructor in Dentistry ✓

S. N.Y.U., 1936
D. N.Y.U., 1939
D.S. COLUMBIA, 1941

(Mrs. Gladstone)
Gladstone
35 North Street 1933
N.Y.U. Dec 1937

IRWIN D. MANDEL, B.S., D.D.S.	Research Assistant in Dentistry ✓
ARTHUR H. MERRITT, D.D.S., M.S., Sc.D.	Lecturer in Dentistry ✓
JOHN V. MERSHON, D.D.S., D.Sc. (<i>hon.</i>)	Lecturer in Dentistry ✓
HENRY MILCH, A.B., M.D.	Instructor in Anatomy ✓
WILLIAM MILLER, B.S., D.D.S.	INSTRUCTOR IN DENTISTRY ✓
WILLIAM JOHN MILLER, A.B., D.D.S.	Instructor in Dentistry ✓
ALVIN S. NATHAN, D.D.S., B.S. in Ed., A.M.	Instructor in Dentistry ✓
STANLEY F. NIEF, A.B., D.D.S.	Assistant in Dentistry ✓
ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S.	Lecturer in Dentistry ✓
MIRIAM C. PRITCHARD, B.A., M.A., Ph.D.	LECTURER IN DENTAL HYGIENE ✓
HOWARD J. ROGERS	Instructor in Dental Technic ✓
FRED ROTHENBERG, D.M.D., D.D.S.	Instructor in Dentistry ✓
WILLIAM I. SAVOY, B.S., D.D.S.	Instructor in Dentistry ✓
BOBB SCHAEFFER, A.B., A.M., Ph.D.	Lecturer in Dentistry ✓
LOUIS LASZLO SCHWARTZ, B.S., D.D.S.	Lecturer in Dentistry ✓
BOAZ SHATTAN, A.B., D.D.S.	Instructor Assistant in Dentistry ✓
HAROLD SHERMAN, B.S., D.D.S.	Instructor Assistant in Dentistry ✓
HERBERT F. SILVERS, B.S., D.D.S.	Research Associate in Dentistry ✓
FRANKLIN A. SQUIRES, D.D.S.	LECTURER IN DENTISTRY ✓
GEORGE STEIN, M.D., D.M.D.	Research Associate in Dentistry ✓
LEO STERN, JR., A.B., D.D.S.	Assistant in Dentistry ✓
WALTER W. STEVENS, D.D.S.	Instructor in Dentistry ✓
FERDINAND A. STEWART, JR., A.B., D.D.S.	Instructor in Dentistry ✓
FRANCES AGNES STOLL, R.D.H., B.S., A.M. and Prof. of Dental Hygiene ✓	Instructor in Dental Hygiene ✓
HARRY STRUSSER, D.D.S.	Lecturer in Dentistry ✓
BENJAMIN TENENBAUM, B.S., D.D.S.	ASSOCIATE Research Assistant in Dentistry ✓
WILLIAM A. THEMANN, D.D.S.	Instructor in Dentistry ✓
¹ JOSEPH J. C. THOMSON, D.D.S.	Assistant in Dentistry ✓
FERDINAND A. TUOTI, D.M.D.	Assistant in Dentistry ✓
ADELYNE P. URTNOWSKI, R.D.H.	Assistant in Dental Hygiene ✓
WILLIAM A. VERLIN, A.B., D.D.S.	Instructor in Dentistry ✓
CLIFFORD L. WHITMAN, D.D.S.	Instructor in Dentistry ✓

¹ On leave 1948-1949. *W. inter alia*

GLENN H. WHITSON, D.D.S. *Instructor in Dentistry* ✓
 FREDERICK F. YONKMAN, A.B., Ph.D., M.D. *Lecturer in Pharmacology* ✓

CLINICAL ASSISTANTS

✓ AARON L. ACKERMAN, D.D.S., M.P.H.	✓ EDWARD S. LUBOJA, D.D.S.
✓ RALPH BECKER, B.S., D.D.S.	✓ MELVIN MORRIS, B.S., A.M., D.D.S.
✓ HAROLD E. BRENNAN, D.D.S.	✓ DAVID MOSSBERG, D.D.S.
✓ JOHN J. DOLCE, B.S., D.D.S.	✓ HENRY I. NAHOUM, A.B., D.D.S.
✓ HENRY ELLISON, B.S., D.D.S., M.S.P.H.	✓ NATHANIEL RATTNER, D.D.S.
✓ STANLEY S. HELLER, B.S., D.D.S.	✓ JULIAN SCHROFF, B.S., D.D.S.
✓ ELLEN N. HOSIOSKY, D.M.D., D.H., D.D.S.	✓ PAUL C. SEXAUER, B.S., D.D.S.
✓ HAROLD C. KILPATRICK, D.D.S.	✓ IRWIN TEKULSKY, D.D.S.
✓ AUSTIN H. KUTSCHER, A.B., D.D.S.	✓ VINCENT D. VARALLO, B.S., D.D.S.
✓ ALEXANDER LEFF, D.D.S.	✓ STANLEY W. VOGEL, D.D.S.
✓ SAMUEL L. LIFTON, A.B., D.D.S.	✓ LESTER W. WINTER, B.S., A.M., D.D.S.
	✓ DAVID ZEISLER, B.S., D.D.S.

see card

PRESBYTERIAN HOSPITAL DENTAL SERVICE

SAMUEL BIRENBACH, *Director**Attending Dental Surgeons*

ADOLPH BERGER	LEWIS R. STOWE
HOUGHTON HOLLIDAY	ARTHUR C. TOTTEN
CARL R. OMAN <i>Moses Diamond</i>	DANIEL E. ZISKIN
GILBERT P. SMITH	

Associate Attending Dental Surgeons

LESTER R. CAHN	SOLOMON N. ROSENSTEIN
IRVIN L. HUNT, JR.	JOSEPH SCHROFF

Assistant Attending Dental Surgeons

OSCAR E. BEDER	<i>Alvin S. Nathan</i>
FRANK E. BEUBE	WILLIAM J. SAVOY
EDWARD A. CAIN	EDWARD V. ZEGARELLI

Frank E. Deffen ALBIN R. SEIDEL, *Consultant*

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., *Assistant Attending Surgeon*

Stanley Lane, M.D., D.D.S. " " "

REGISTER OF STUDENTS

GRADUATES—CLASS OF JUNE, 1947

Armao, Thomas Anthony Manhattan	Brooklyn, N.Y.	Levin, Alfred W. New York University	New York City
Darling, Maus Vedder A.B., Johns Hopkins, 1936	Stamford, Conn.	Levine, Wilfred New York University	New York City
D'Errico, Louis John A.B., Columbia, 1944	Flushing, N.Y.	Luboj, Edward Stephen Fordham	New York City
Ferber, Irwin New York University	New York City	Lucca, John James A.B., New York University, 1941	Brooklyn, N.Y.
Field, Jesse Waldron A.B., Gettysburg, 1936	New York City	Murray, John Joseph Fordham	New York City
Fletcher, Roland Anderson Mt. Vernon, N.Y.		Nicoletti, Leonard John A.B., Columbia, 1943	Weehawken, N.J.
Amherst Yale		Oberman, Philip New York University	New York City
Golub, Leo Joseph A.B., Columbia, 1943	New York City	Rackson, Chester Bert B.S., Queens, 1944	Elmhurst, N.Y.
Halperin, Arnold B.S., New York University, 1944	New York City	Raebeck, William, Jr. Colgate	Belle Harbor, N.Y.
Hayward, Donald Edwin, Jr. New York University	Brooklyn, N.Y.	Remnick, Herbert Stanley B.S., New York University, 1944	Paterson, N.J.
Heaphy, Charles Francis Fordham	Norwalk, Conn.	Rifkin, Irving A.B., New York University, 1943	Los Angeles, Calif.
Heyen, Aloys Diedrich Franklin and Marshall	Lynbrook, N.Y.	Russell, Raymond Homer Union	Ilion, N.Y.
Hoelzer, Robert Frederick A.B., Colgate, 1946	Hollis, N.Y.	Salem, James Joseph Fordham	Brooklyn, N.Y.
Hosiosky, Ellen N. D.M.D., Basle (Switzerland), 1935	New York City	Santeramo, Eugene Frank Queens	Jamaica, N.Y.
Jaxheimer, David Paul Muhlenberg	Freeport, N.Y.	Scheiner, Herman Isaac B.S., New York University, 1944	New York City
Kafka, Betty A.B., Brooklyn, 1943	Brooklyn, N.Y.	Slagle, Charles Joseph New York University	Port Chester, N.Y.
Kelley, Edward Joseph, Jr. Fordham	Norwalk, Conn.	Stuart, Robert Sterling A.B., Bowdoin, 1944	Portland, Maine
Kovarsky, Leonard Ohio	Passaic, N.J.	Telsey, Daubert B.S., New York University, 1945	Long Island City, N.Y.
New York University		Thomson, Joseph John Clayton North Bergen, N.J.	
Lane, John O'Gorman, Jr. A.B., Columbia, 1947	New York City	St. Peter's (N.J.) Walsh, Robert Francis Fordham	Jamaica, N.Y.

SEPTEMBER 11, 1947 TO JUNE 1, 1948

FOURTH YEAR—CLASS OF JUNE, 1948			
Arslan, Paul A.B., New York University, 1943	New York City	Cacciola, Frank James St. John's (N.Y.)	Jackson Heights, N.Y.
Auerbach, Gabriel Irving B.S., Massachusetts State, 1941	Springfield, Mass.	Cava, Nicholas Joseph Long Island	Bethpage, N.Y.
Auslander, Irwin Howard New York University	Brooklyn, N.Y.	Deesen, Kenneth Charles Queens	Glendale, N.Y.
Baurmash, Harold Daniel B.S., New York University, 1945	New York City	Massachusetts Inst. of Tech.	
Blanco-Dalmau, Luis University of Puerto Rico	Rio Piedras, P.R.	Delasho, James William B.S., Manhattan, 1943	Yonkers, N.Y.
Blugerman, John Mark A.B., Columbia, 1944	Brooklyn, N.Y.	Derevlany, Michael John A.B., Columbia, 1944.	Whitestone, N.Y.
Breheny, John Martin Fordham	New York City	Disick, Donald Brooklyn	Brooklyn, N.Y.
		Engel, Walter Frederick, Jr. Wesleyan	Brooklyn, N.Y.

- | | | | |
|---|------------------------|---|-------------------|
| Englander, Harold Robert | New York City | Scrivani, Steven Silvio | Brooklyn, N. Y. |
| College of the City of New York | | Brooklyn | |
| Washington Univ. (Mo.) | | Shapiro, Sidney | New York City |
| Fenning, Howard Ressler | Middletown, N.Y. | Hofstra | |
| A.B., Lafayette, 1942 | | New York University | |
| Friedman, Jay Wolfe | Hempstead, N.Y. | Stein, Joseph Robert | New York City |
| North Carolina | | College of the City of New York | |
| Goldwasser, Joseph Max | Brooklyn, N.Y. | New York University | |
| Brooklyn | | Cornell University | |
| Union | | Yale University | |
| Halla, Paul Emil | New York City | Stern, Eli Sheldon | New York City |
| New York University | | New York University | |
| Haufe, Thomas Robert | New York City | Columbia | |
| Fordham | | Stern, Peter Edward | New York City |
| Cornell | | Columbia | |
| Jurka, Charles Edward | Croton-on-Hudson, N.Y. | Swanstrom, Ake Adolph Emanuei | Ostersund, Sweden |
| Hamilton | | L.D.S., Swedish Dental Inst. (Stockholm), | |
| Kantorowitz, Leo | Providence, R.I. | 1931 | |
| B.S., Providence, 1944 | | Uccellani, Ennio Louis | New York City |
| Klein, Harold Jacques | New York City | College of the City of New York | |
| A.B., New York University, 1943 | | Cornell | |
| Klickstein, Melvin | Malden, Mass. | Zinn, Arthur, Jr. | San Diego, Calif. |
| Massachusetts State | | San Diego State | |
| Trinity (Conn.) | | Notre Dame | |
| Korniewicz, John Alexander | Brooklyn, N.Y. | | |
| St. Francis College (N.Y.) | | THIRD YEAR—CLASS OF JUNE, 1949 | |
| Holy Cross | | Andreozzi, Armando Edmond | Providence, R. I. |
| Lazoff, Arthur | New York City | Brown | |
| B.S., College of the City of New York, | | Tufts | |
| 1944 | | Berg, Marc Louis | New York City |
| Lewis, Robert Mervin | Newark, N.J. | Cornell | |
| Rutgers | | Breuer, Jack M. | New York City |
| Loeb, Morton Samuel | Laurelton, N.Y. | A.B., Columbia, 1946 | |
| Queens | | Cook, Dana Ellsworth | Tarrytown, N. Y. |
| Colgate | | Massachusetts Institute of Technology | |
| McGann, Donald Michael | New York City | Colgate | |
| A.B., St. Peter's (N.J.), 1943 | | Docktor, John Paul | Ellsworth, Pa. |
| Maillard, Gene Charles | Ridgewood, N.Y. | B.S., Pittsburgh, 1941 | |
| Fordham | | M.D., George Washington, 1943 | |
| New York University | | Freedman, Leonard Irving | Cedarhurst, N. Y. |
| Mand, Stanley Mervin | Brooklyn, N.Y. | Wisconsin | |
| New York University | | New York University | |
| Marmer, David | New York City | John, Hedda Maria | New York City |
| A.B., New York University, 1944 | | M.D., Prague (Czechoslovakia), 1925 | |
| Mehta, Fali Sarabji | Bombay, India | D.D.S., Prague (Czechoslovakia), 1933 | |
| L.D.Sc., Nair (India), 1947 | | Karlan, Frances Ross | New York City |
| Miller, Harold | New York City | B.S., Massachusetts Inst. Tech., 1942 | |
| B.S., Long Island, 1939 | | Kurzius, George | Brooklyn, N. Y. |
| M.S., New York University, 1942 | | A.B., New York University, 1941 | |
| Pino, Rudolph Victor | Brooklyn, N.Y. | Levin, Alex Elihu | New York City |
| B.S., Fordham, 1943 | | George Washington | |
| Portale, Joseph Sebastian | Ridgewood, N.J. | McAllister, Charles Bruce, Jr. | Elmhurst, N. Y. |
| Villanova | | B.S., Fordham, 1944 | |
| Prince, Ivin Bittker | New York City | Popper, Alfred | New York City |
| A.B., New York University, 1943 | | M.D., Hamburg (Germany), 1934 | |
| Rasi, Howard Blades | Brooklyn, N.Y. | Prata, Raymond Louis | New York City |
| A.B., Cornell, 1939 | | B.S., Fordham, 1943 | |
| M.D., New York Medical College, 1943 | | Richmond, Julius Kenrick Makepeace | Georgetown, B. G. |
| Rebhun, Lionel Earl | New York City | Columbia | |
| College of the City of New York | | | |
| Robinson, Irwin Schnoll | Jackson Heights, N.Y. | | |
| B.S., College of the City of New York, 1944 | | | |

Yanowitz, Bernard St. Lawrence	Malone, N. Y.	Schwartz, Stanley Irving A.B., Bard, 1945	Poughkeepsie, N. Y.
SECOND YEAR—CLASS OF JUNE, 1950			
Barlow, Carl Morton A.B., New York University, 1946	New York City	Shapiro, Morton Louis B.S., Willamette University, 1947	Brooklyn, N. Y.
Buslowe, Louis A.B., Yale, 1938	New Haven, Conn.	Sherr, Leonard Allen College of the City of New York	New York City
Citron, Hyman Allan B.S., College of the City of New York, 1946	New York City	Wisconsin	
Dowling, James Glenville Fordham	Fairfield, Conn.	Tansky, Joseph Brooklyn	Brooklyn, N. Y.
St. Lawrence		Tiernan, Vincent Clifford B.S., Manhattan, 1942	New York City
Fitz-Gibbon, Francis John Providence College	Holyoke, Mass.	Vairo, George Gerard B.S., Fordham, 1942	New York City
Furgang, Murray College of the City of New York	Pelham Manor, N. Y.	Vogel, Howard Bernard College of the City of New York	New York City
St. John's (N. Y.) Fordham		Bates Rochester	
New York University		Wannen, John Richard Boston	Forest Hills, N. Y.
Harnett, William Watkins Detroit	Englewood, N. J.	Middlebury	
Hanover		Tufts	
Columbia		Wiener, Jack Joseph Brooklyn	Brooklyn, N. Y.
Harris, Stanford College of the City of New York	New York City	Wille, Carl Ludwig B.S., Fordham, 1936	Stewart Manor, N. Y.
Gonzaga University		FIRST YEAR—CLASS OF JUNE, 1951	
University of Washington		Adams, Roger Pettingell B.S. Bowdoin, 1946	Westbrook, Maine
Henrich, Edwin John New York University	New Rochelle, N. Y.	Bruder, George Allan B.S. College of the City of New York, 1945	New York City
Buffalo		Cohen, Eugene A. Brooklyn	Brooklyn, N. Y.
Cornell		Duprey, Leon Perlie A.B., Oberlin, 1947	Chazy, N. Y.
Jacklyn, Herbert Barre College of the City of New York	New York City	Friedman, Edward U. Mt. Union	Hempstead, N. Y.
Jenkins, Cornelius Willis A.B., Lincoln, 1946	New York City	New York University	
Jussim, Julius B.S., College of the City of New York, 1938	New York City	Gouliau, Dicran, Jr. Columbia	Weehawken, N. J.
Lemrow, Maynard Wesley Westminster (Pa.)	Stratford, Conn.	Greenier, Robert David B.S., Fordham, 1941	Orangeburg, N. Y.
Bethany (W. Va.)		Griffin, Edward Mitchell A.B., Dartmouth, 1947	Mt. Vernon, N. Y.
Levine, Charles Lester College of the City of New York	New York City	Hershey, Robert B.S., College of the City of New York, 1947	New York City
Wisconsin		Houser, William Wyman Colgate	Yorkville, N. Y.
Ohio		Kutner, Philip B.S. cum laude, College of the City of New York, 1944	Corona, N. Y.
Michigan		McMahon, Donald B.S., Randolph-Macon, 1943	Mt. Vernon, N. Y.
Loeffler, George Henry Manhattan College	Jamaica, N. Y.	Machenberg, Stanley Ellis B.S., Connecticut, 1943	Stamford, Conn.
McManus, Philip Patrick, Jr. A.B., Illinois, 1942	New York City	Mellow, Emil Anthony Scranton	Old Forge, Pa.
Menken, George Cornell	Jackson Heights, N. Y.	Moschella, Joseph A.B., Norwich, 1937	Staten Island, N. Y.
Queens College		Murakami, Kenneth Kiyoshi Hawaii	Honolulu, T. H.
Nebel, Arthur John, Jr. Centre College	Elizabeth, N. J.	Murphy, James Gerard Newark	Arlington, N. J.
Columbia		Murray, James Francis A.B. cum laude, Notre Dame, 1942	New York City
O'Loughlin, John Joseph B.S., Fordham, 1946	Howard Beach, N. Y.		
Pomerantz, Alan Saul A.B., Brown, 1946	Brooklyn, N. Y.		
Russo, Michael Archangel B.S., Fordham, 1942	Elizabeth, N. J.		
Savad, Sol A.B., Brooklyn, 1939	Brooklyn, N. Y.		

- O'Connor, James Thomas Brooklyn, N. Y.
A.B., St. Peter's (N. J.), 1947
O'Neill, Frank Devereaux Carle Place, N. Y.
B.S., New York University, 1940
A.M., New York University, 1942
Pecora, Francis Nicholas New York City
A.B., Fordham, 1943
Platzer, Kenneth Martin Brooklyn, N. Y.
A.B., Brooklyn, 1942
Rivera, Victor M. Aibonito, P. R.
Louisiana State
Tennessee
Seidenberg, Leonard Syracuse, N. Y.
Syracuse
Selinger, Jerome New Brunswick, N. J.
Rutgers
Silverstein, Harold Brooklyn, N. Y.
A.B., Brooklyn, 1947
Storella, John Alfonse Boston, Mass.
B.S., Massachusetts State, 1947
Tolmach, Herbert New York City
A.B., New York University, 1947
Tripodi, Joseph John Tonawanda, N. Y.
B.S., St. Bonaventure, 1945
M.S., St. Bonaventure, 1947
Worboys, Wilson Thomas New York City
A.B., Houghton, 1940

POSTGRADUATE STUDENTS
CANDIDATES FOR THE CERTIFICATE
OF TRAINING

General Restorative Dentistry

- Cassland, Arne Lennart Malmo, Sweden
University School of Dental Surgery, Stockholm (Sweden)
Drewes, Julius Martin Falun, Sweden
Institute of Dentistry, Stockholm (Sweden)
Hochberg, Joseph Aaron Mt. Vernon, N. Y.
D.M.D., Louisville, 1945
Johansson, Gosta Sven Falkoping, Sweden
Uppsala (Sweden)
Caroline Medico-Surgical Institute (Sweden)
Swedish Dental Institute, Stockholm (Sweden)
Kaplan, Joseph Los Angeles, Calif.
D.D.S., Pennsylvania, 1934
Koutsonas, George Michael Salonika, Greece
Dental School of National and Kapodistrian University, Athens (Greece)
Ovadia, Andrea Kamal Rome, Italy
M.D., Rome (Italy), 1927
D.D.S., Milan (Italy), 1930

Oral Surgery

- Chang, Raymond Hsi-Tseh Chengtu, China
D.D.S., West China Union (China), 1939
Lewin-Epstein, Jacob Jerusalem, Palestine
D.D.S., Pennsylvania, 1944
Moshman, Howard Benjamin Brooklyn, N. Y.
D.D.S., New York University, 1945
B.S., College of the City of New York, 1941
Rogers, Nathan, Jr. San Francisco, Calif.
D.D.S., California, 1943
B.S., California, 1943
A.B., Stanford, 1937

Orthodontics

- Ash, Arthur Seymour Mt. Vernon, N. Y.
D.D.S., New York University, 1942
B.S., College of the City of New York, 1939
Ballin, Bert New York City
D.D.S., Columbia, 1946
A.B., Oberlin, 1943
Berman, Maurice S. Capetown, South Africa
L.D.S., R.C.S., Royal Dental Hospital of London (England), 1939
Blatman, Daniel Great Neck, N. Y.
D.D.S., Columbia, 1945
Browe, Curtis R. Millburn, N. J.
D.D.S., Pennsylvania, 1944
Cohen, M. Michael Elizabeth, N. J.
D.D.S., Columbia, 1945
B.S., Rutgers, 1938
Cohen, Milton Brooklyn, N. Y.
D.D.S., New York University, 1939
A.B., New York University, 1935
Cole, Robert Merton Tarrytown, N. Y.
D.D.S., Columbia, 1944
A.B., Columbia, 1942
Crisci, Custode A. Philadelphia, Pa.
D.D.S., Temple, 1942
A.B., Notre Dame, 1938
Fee, Neal Richard Mooers, N. Y.
D.D.S., Pennsylvania, 1944
Groher, David Louis New Canaan, Conn.
D.D.S., Indiana, 1942
Jaffe, Alfred Newport, R. I.
D.D.S., Columbia, 1943
B.S., Columbia, 1943
Kanter, Frank Baltimore, Md.
D.D.S., Pennsylvania, 1939
Kaplan, Jacob Israel Brooklyn, N. Y.
D.D.S., Columbia, 1943
A.B., New York University, 1938
Karp, Alfred Jersey City, N. J.
D.D.S., Columbia, 1943
Kresky, Leo Samuel Brooklyn, N. Y.
D.M.D., Harvard, 1943
A.B., Colby, 1939
Levy, Henry Pershing Brooklyn, N. Y.
D.D.S., Pennsylvania, 1942
A.B., New York University, 1937
London, George Julius Brooklyn, N. Y.
D.D.S., Illinois, 1942
B.S., Illinois, 1940
A.B., New York University, 1937
Madden, Robert Francis Scarsdale, N. Y.
D.D.S., Columbia, 1945
Paskow, Herbert Elizabeth, N. J.
D.D.S., Pennsylvania, 1945
A.B., Pennsylvania, 1943
Richardson, Henry Brown Lowville, N. Y.
D.M.D., Tufts, 1944
A.B., Cornell, 1941
Saxon, Alfred Elliot New York City
D.D.S., Columbia, 1943
Seemann, Julius Anthony Perth Amboy, N. J.
D.D.S., Pennsylvania, 1940
Tate, James Carney Louisville, Ohio
D.D.S., Northwestern, 1944

Teltsch, Edward Emery	Brooklyn, N. Y.	Esposito, Salvatore Joseph	New York City
D.D.S., Buffalo, 1936		D.D.S., Marquette, 1943	
A.B., Columbia, 1932		A.B., Fordham, 1939	
Virkler, Lyndon Mark	Castorland, N. Y.	Gorlin, Robert James	Newark, N. J.
D.M.D., Harvard, 1941		D.D.S., Washington (Mo.), 1947	
A.B., Cornell, 1937		A.B., Columbia, 1943	
Wood, Max Grogan	Littlefield, Texas	Raebeck, William, Jr.	Belle Harbor, N. Y.
D.D.S., Texas, 1932		D.D.S., Columbia, 1947	
		Smith, David Joseph	Brooklyn, N. Y.
		D.D.S., Columbia, 1944	
		Weissman, Bertram	New York City
		D.D.S., Columbia, 1946	
		B.S., College of the City of New York, 1946	

Periodontology

Cohen, Samuel L.	East Orange, N. J.		
D.D.S., Georgetown, 1937			
A.D., Uppsala, 1933			
Golomb, Ida M.	Forest Hills, N. Y.		
D.D.S., New York University, 1945			
B.S., New York University, 1938			
Gottsegen, Robert	New York City		
D.D.S., Columbia, 1943			
A.B., Michigan, 1939			
Levine, Seymour William	Brooklyn, N. Y.		
D.D.S., New York University, 1944			
Sackler, Alvin Meyer	Brooklyn, N. Y.		
D.D.S., New York University, 1944			
B.S., New York University, 1938			

SPECIAL STUDENTS

Di Salvo, Nicholas Armand	New York City		
D.D.S., Columbia, 1945			
B.S., College of the City of New York, 1942			

SUMMARY

Graduates—June, 1947	38
Fourth Year—June, 1948	49
Third Year—June, 1949	15
Second Year—June, 1950	32
First Year—June, 1951	30
Candidates for Certificates in Training	43
Special Postgraduate Students	6
Total	213

INDEX

- Academic calendar, 4
- Academic discipline, 13
- Acceptance fee, 11
- Administrative staff, 6
- Admission, to first year, 8; for foreign students, 10; to Graduate Faculty, 16
- Alumni Association, 30
- Anatomy, courses, 19
- Anesthesia, *see* Oral Surgery
- Application for admission, 8

- Bachelor of Science, 14
- Bacteriology, courses, 19
- Barnard College, combined courses with, 10
- Basic sciences, graduate courses, 15
- Biochemistry, course, 20
- Books, required, 25
- Bookstore, 28

- Certificate, courses leading to, 15
- Chapel, 28
- Columbia College, combined courses with, 9
- Combined courses, 9
- Commencement, 14
- Committee on Dental Education, 6
- Courses of instruction, 19
- Crown and bridge, courses, 22
- Curriculum, 17

- D.D.S., *see* Doctor of Dental Surgery
- Dental Abstracts*, 27
- Dental equipment, 11
- Dental hygienists, courses for, 14
- Dental materials, course, 120
- Diagnosis, courses, 20
- Discipline, academic, 13
- Doctor of Dental Surgery, 14
- Doctor of Philosophy, 16

- Embryology, *see* Anatomy
- Expenses, estimated, 12

- Facilities, 28
- Faculty of Medicine, 5
- Fees, 10
- Fellowships, 15; 29
- First-year curriculum, 17
- Foreign students, 10
- Fourth-year curriculum, 20

- Grading of students, 13
- Graduate Faculty, admission to, 16
- Graduation, requirements for, 14
- Gymnasium, 28

- Health service, 28
- Histology, *see* Anatomy
- Historical statement, 27
- Honorary societies, 27
- Hospital Dental Service, 37

- Instruction, courses of, 19; plan of, 17
- Instruments, 11
- International House, 28

- Jarvie Society, 27

- King's Crown Hotel, 29

- Library, 28
- License to practice dentistry in New York State, 16
- Loans, 30
- Lockers, 11

- Master of Public Health, 16
- Medical care, 28
- Medicine, course, 20
- Microscopes, 11

- Neuroanatomy, *see* Anatomy
- New York State Board examinations, 16; license, 16

- Officers, of the Faculty, 5; of Instruction, 31
- Omicron Kappa Upsilon, 27
- Operative dentistry, courses, 20
- Oral hygiene, course, 21
- Oral surgery, postgraduate courses, 15
- Orthodontics, courses, 21; postgraduate, 15

- Pathology, courses, 21
- Pedodontics, course, 21
- Periodontology, courses, 21; postgraduate, 15
- Pharmacology, course, 22
- Ph.D., *see* Doctor of Philosophy
- Physiology, course, 22
- Postgraduate courses, 15
- Presbyterian Hospital Dental Service, 37; Oral Surgery Service, 37
- Prizes, 29
- Promotion, requirements for, 13
- Prosthetic Dentistry, courses, 22
- Psychiatry, course, 23
- Public health, courses, 23; *see also* Master of Public Health

- Radiology, course, 23
- Register of students, 38
- Registration, 10
- Religious life, 28
- Requirements, for admission, 9; for promotion, 13, for graduation, 14
- Residences for guests, 29

- Scholarships, 29
- School of Public Health, 16
- Second-year curriculum, 18
- Student employment, 30
- Student Health Service, 28
- Student loans, 30
- Student organizations, 27
- Students, definition of, 12; register of, 38
- Subjects of instruction, 19
- Summary of curriculum, 17
- Surgery, courses, 23; postgraduate courses, 15

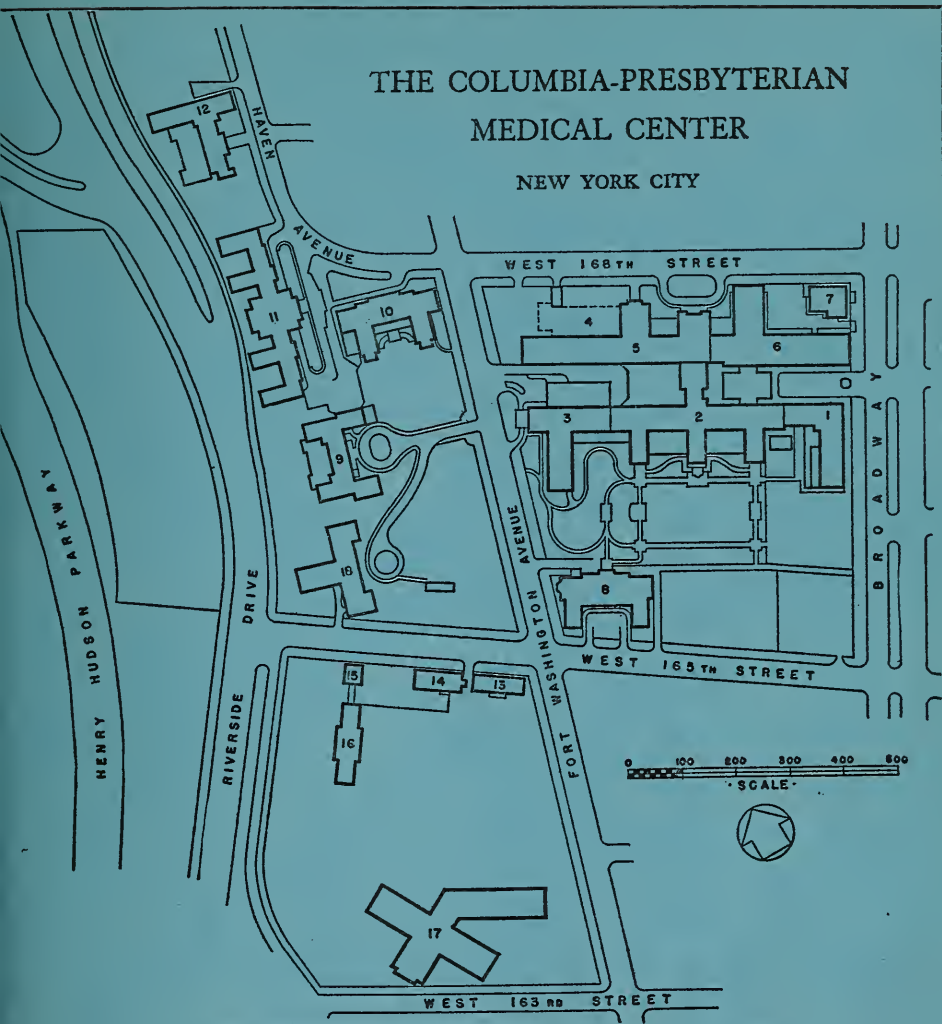
- Textbooks, 25
- Theory and practice of dentistry, courses, 24
- Third-year curriculum, 18
- Trimester, *see* Academic Calendar
- Tuition fees, 10

- University privileges, 28

- William Jarvie Society, 27
- Withdrawal, 13

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

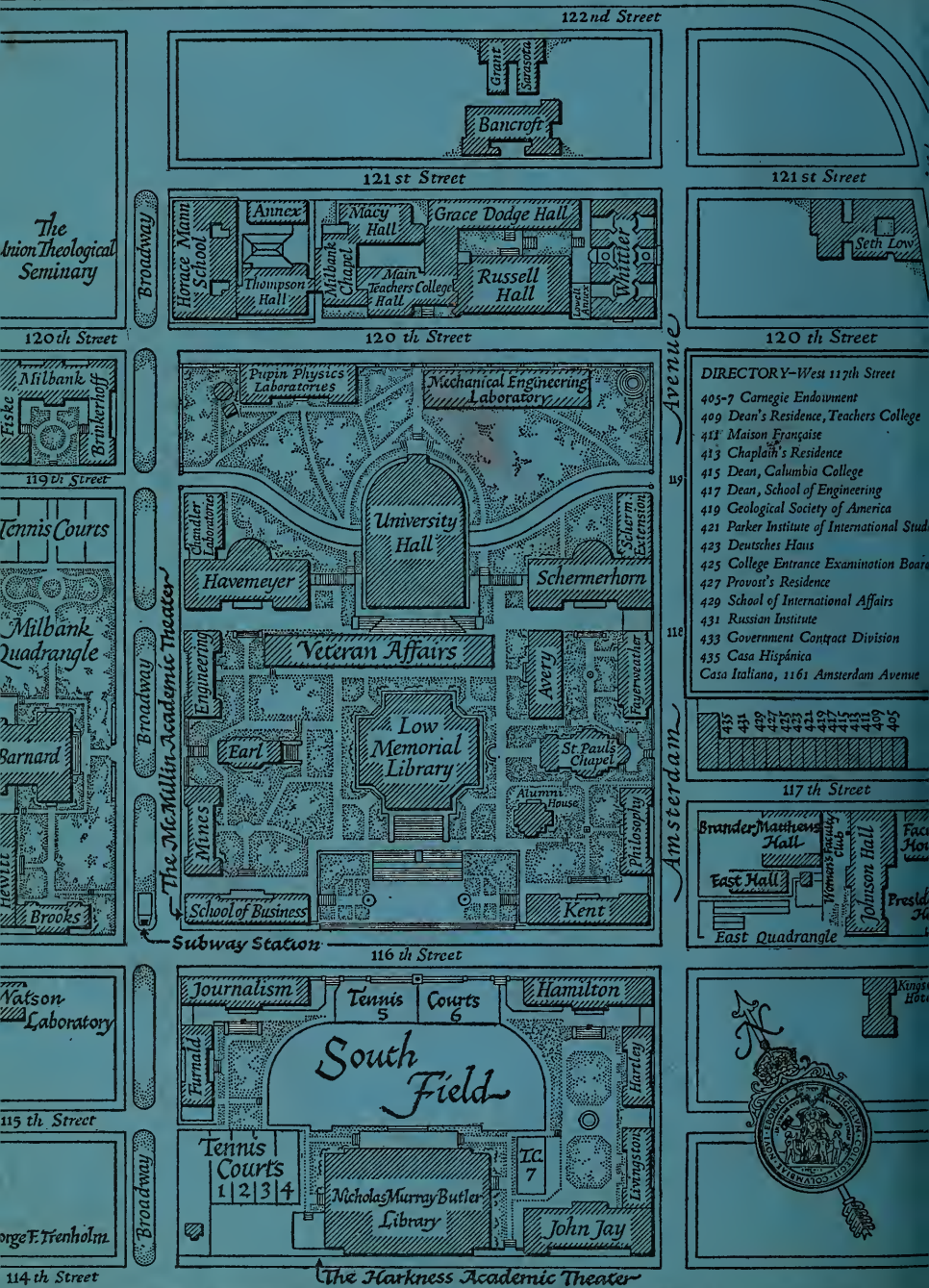
NEW YORK CITY



- | | |
|--|--|
| 1. Babies Hospital | 9. Maxwell Hall |
| 2. Presbyterian Hospital
Sloane Hospital | 10. Neurological Institute |
| 3. Harkness Pavilion | 11. N. Y. State Psychiatric Institute and
Hospital |
| 4. Power plant | 12. Bard Hall |
| 5. College of Physicians and Surgeons | 13, 16. Storage |
| 6. Vanderbilt Clinic
School of Dental and Oral Surgery | 14. Shops |
| 7. Washington Heights Health and Teach-
ing Center, N. Y. City Dept. of Health
School of Public Health | 15. Housing |
| 8. Institute of Ophthalmology | 17. Francis Delafield Hospital (under
construction), N. Y. City Dept.
of Hospitals |
| | 18. Edward S. Harkness Memorial Hall |

MORNINGSIDE HEIGHTS

Plan of Buildings and Grounds



COLUMBIA UNIVERSITY *master*
BULLETIN OF INFORMATION

Forty-ninth Series, No. 38

October 1, 1949

COPY 2
COLUMBIA UNIVERSITY

HEALTH SCIENCES

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND
ORAL SURGERY

OF THE

FACULTY OF MEDICINE

1949-1950

COLUMBIA-PRESBYTERIAN MEDICAL CENTER

630 WEST 168TH STREET • NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Forty-ninth Series, No. 38

October 1, 1949

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from January for forty consecutive issues. Re-entered as second-class matter February 7, 1949, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Office of University Admissions.

C. U. P. 9,500—1949.

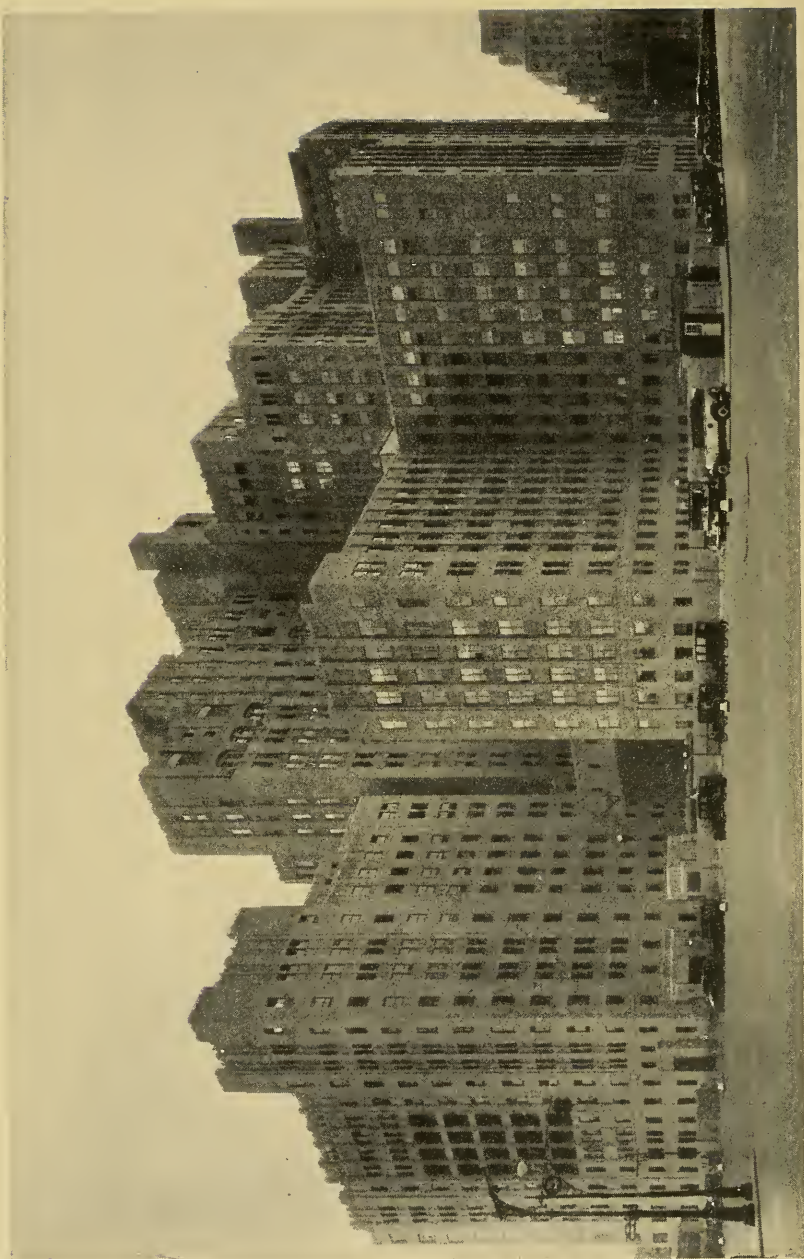
COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3-2500.

ANNOUNCEMENTS

The Announcements of each College or School and of the Summer Session may be obtained without charge from the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE
FACULTY OF MEDICINE



1949-1950

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

FORM OF BEQUEST

To the Trustees of Columbia University in the City of New York I give and bequeath the sum of \$, to be used by said Trustees for the uses and purposes of said Corporation.

CONTENTS

CONDENSED ACADEMIC CALENDAR	4
FACULTY OF MEDICINE	5
THE SCHOOL OF DENTAL AND ORAL SURGERY	7
General Statement	7
Requirements for Admission, Promotion, and Graduation	8
PLAN OF INSTRUCTION	17
COURSES OF INSTRUCTION	19
TEXTBOOKS	25
STUDENT ORGANIZATIONS	27
FACILITIES	28
FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES	30
ALUMNI ASSOCIATION	31
OFFICERS OF INSTRUCTION	32
REGISTER OF STUDENTS	40
INDEX	44

CONDENSED ACADEMIC CALENDAR

1949

September 8 Thursday, to September 10, Saturday. Registration, including payment of fees.

September 12 Monday. Classes begin.

November 8 Tuesday. Election Day. Holiday.

November 24 Thursday. Thanksgiving Day. Holiday.

November 26 Saturday. End of first trimester.

November 28 Monday. Beginning of second trimester.

December 21¹⁹ Wednesday, to

1950

January 3² Tuesday, inclusive. Christmas holidays.

February 22 Wednesday. Washington's Birthday. Holiday.

February 25 Saturday. End of second trimester.

February 27 Monday. Beginning of third trimester.

March 1 Wednesday. Last day for filing application for degrees.

April 2 Sunday, to April 9, Sunday, inclusive. Easter holidays.

May 20 Saturday. Last day of classes.

May 22 Monday, to May 27, Saturday. Final examinations.

May 30 Tuesday. Memorial Day. Holiday.

June 8 Thursday. Conferring of degrees.

FACULTY OF MEDICINE

OFFICERS OF THE FACULTY

DWIGHT DAVID EISENHOWER, LL.D.	<i>President of the University</i>
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¹ BION R. EAST, D.D.S.	<i>Associate Dean (Dental and Oral Surgery)</i>
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² HARRY STOLL MUSTARD, B.S., A.M., LL.D.	<i>Associate Dean (Public Health)</i>
MARGARET ELIZABETH CONRAD, A.B., Sc.D.	<i>Associate Dean (Nursing)</i>
JOHN BACCHUS TRUSLOW, A.B., M.D.	<i>Assistant Dean (Graduate Studies)</i>

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¹ On leave July 1 to September 30, 1949.

² On leave from July 1 to December 31, 1949.

³ On leave Winter Session.

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AT SCHOOL OF DENTAL AND ORAL SURGERY

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> 50-51

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THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled *A Dental School on University Lines*. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 Mr. James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery, this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dentistry, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by

the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of home work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire pre-dental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special pre-dental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within two weeks after notification of acceptance (see page 11).

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a

professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College. Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies. Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one summer session.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed for dental students:

(a) University Fee

For all students for one academic year, or for any part thereof, payable in	
two installments	\$20.00

(b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments . \$750.00
For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

(c) Fee for Application

For a degree 20.00

(d) Privileges

1. Late registration or late application for a degree or for deficiency or special examinations 3.00
2. Deficiency or special examinations 3.00
3. Renewal of application for any degree 1.00

(e) Student Activities (payable annually)

For all students, *Dental Abstracts Journal* 2.00

(f) Student Health Service Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.

For all students, per academic year 20.00

(g) Case Rental

For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments 5.00

(h) Rebates

1. The University fee and the fee for application for any degree shall not be subject to rebate.
2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

(i) Deposit 25.00

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned.

If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fees for Repeated Courses. Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1948-1949 and can be accepted as applicable in general for the year 1949-1950 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and University fees	\$ 770	\$ 770
Miscellaneous fees	55	30
Room	330	190
Board	385	350
Books	150	115
Instruments (see below)	325	325
Laundry	75	35
<i>Total</i>	<u>\$2,090</u>	<u>\$1,815</u>

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate dean or director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement.
- II. Recommended for readmission to the same class.
- III. Recommended neither for advancement nor for readmission to the same class:
 - a) Because of failure.
 - b) Those who fall under paragraph 2 of rules for advancement of students.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects, including satisfactory courses in English, biological science or chemistry, and sociology or psychology, complete the course of instruction in the field of Dental Hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate will be secured by the School. Wherever possible, a personal interview is required before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	<i>Semester Hours</i>
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits for the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Dean, School of Dental and Oral Surgery, 630 West 168 Street, New York 32, N. Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1949-1950 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these specially arranged courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant a certificate of training in dentistry, or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery, to students who have been graduated from an acceptable school of dentistry in the United States or a foreign country.

The course of study for the certificate of training includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in general restorative dentistry; oral diagnosis and roentgenology; oral surgery; orthodontics; pedodontics; and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in

the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Office of University Admissions, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1949-1950

Subject*	Trimester Credits	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
FIRST YEAR				
Anatomy				
Embryology 152 F	1	16	...	16
Gross 151 FS	13	50	241	291
Microscopic 150 FS	8	42	126	168
Neuro 153 T	4	30	36	66
Oral 101 ST	5	19	104	123
Biochemistry 150 ST	8	39	128	167
Histology, Oral 115 ST	2 ✓	7	65	72
Physiology 150 FS	11	56	191	247
	52			1,150

* Letter following course number designates trimester: F = first, S = second, and T = third.

Correlative Clinics F. no credit

Intro. Physiology for " " "

Intro. to the Body

<i>Subject*</i>	<i>Trimester Credits</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
SECOND YEAR				
Bacteriology 151 <i>F</i> and 152 <i>F</i>	7	43	99	142
Crown and Bridge 105 <i>ST</i>	6	10	165	175
Dental Materials 126 <i>FS</i>	2	10	34	44
Operative Dentistry 131 <i>FST</i>	8	20	197	217
Oral Hygiene 122 <i>T</i>	2	20	...	20
Pathology 150 <i>FS</i>	9	50	130	180
Periodontology 151 <i>T</i>	1	...	30	30
Pharmacology 150 <i>ST</i>	6	55	33	88
Prosthetic Dentistry 157 <i>FST</i>	9	20	209	229
Psychiatry 150 <i>S</i>	1	11	...	11
Theory and Practice				
Dental History 283 <i>F</i>	1	10	...	10
Therapeutics 286 <i>T</i>	1	10	...	10
	53			1,156
THIRD YEAR				
Anatomy, Applied 252 <i>S</i>	1	10	...	10
Crown and Bridge				
Technique 205 <i>F</i> and 207 <i>F</i>	3	...	83	83
Clinic 206 <i>ST</i>	5	10	110	120
Applied Occ. Dynamics 212 <i>T</i>	1	...	30	30
Diagnosis 212 <i>FST</i>	4	30	30	60
Operative Dentistry 233 <i>FST</i>	10	10	245	255
Orthodontics 241 <i>F</i>	3	20	59	79
Pathology, Oral 246 <i>FS</i>	4	20	59	79
Periodontology 251 <i>S</i>	1	...	30	30
Practice of Medicine 278 <i>ST</i>	5	40	22	62
Prosthetic Dentistry 260 <i>FST</i> and 261 <i>FST</i>	8	20	173	193
Radiology 267 <i>F</i>	1	...	30	30
Surgery, Oral 270 <i>FT</i>	2	10	30	40
	48			1,071
FOURTH YEAR				
Crown and Bridge 210 <i>FST</i> and 211 <i>FST</i>	6	10	142	152
Diagnosis 213 <i>F</i>	1	...	30	30
Diagnosis Seminar 214 <i>S</i>	0	...	30	30
Orthodontics 243 <i>FST</i>	1	...	30	30
Operative Dentistry 234 <i>FST</i>	13	20	328	348
Pedodontics 202 <i>FST</i>	4	10	83	93
Periodontology 252 <i>FS</i> and 253 <i>FS</i>	3	20	30	50
Prosthetic Dentistry 263 <i>FST</i> and 264 <i>FST</i>	6	10	141	151
Public Health 222 <i>S</i>	2	20	...	20
Surgery, Oral 272 <i>FST</i>	6	40	60	100
Surgery Seminar 274 <i>T</i>	0	...	...	10
Surgical Prosthesis 265	1	...	30	30
Theory and Practice				
Ethics 281 <i>T</i>	1	10	...	10
Jurisprudence 282 <i>ST</i>	0	10	...	10
Comprehensive 285				
	44			1,064

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For lecture courses this represents one hour a week in class and two hours of homework. For laboratory or clinical work it represents approximately three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on pages 17 and 18 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 5 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 13 credits.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 1 credit.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of *Diagnosis 212*.

Diagnosis 214—Diagnosis seminar. Senior year. No credit.

Discussion and differential diagnosis of selected cases.

MEDICINE

Medicine 278—General survey of medicine. Junior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 8 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 10 credits.

Lectures on the application of operative fundamentals to clinical practice. The technique of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root-canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings related to the etiology and prevention of dental caries and diseases of the periodontium.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 3 credits.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time devoted to the designing and constructing of removable appliances used as space maintainers, habit breakers, and to correct tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Junior year. No credit.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year. 1 credit.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 9 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, management of child dental patients, and the application of present knowledge of dental development, and preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures and clinics on dental prophylactic technique, and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY

Pharmacology 150—Pharmacology. Sophomore year. 6 credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 11 credits.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technique. Sophomore year. 6 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year. 9 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year. 2 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year. 5 credits.

Clinical construction of elementary crown and bridgework.

Prosthetics 207—Porcelain technique. Junior year. 1 credit.

Uses of porcelain; construction of porcelain jacket crown on technique model; staining and glazing of artificial teeth.

Prosthetics 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year. 5 credits.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental hygiene and environment adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year. 2 credits.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Senior year. Elective. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to Seniors who are eligible for electives.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year. 2 credits.

Lectures, readings, and discussions on topics relative to oral radiology.
Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, seminars, demonstrations, and clinical practice on local anesthesia, and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 6 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. No credit. Required.

Lectures and seminars in diagnosis and treatment planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct and practice management.

Theory and Practice 282—Dental jurisprudence. Senior year. No credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Sophomore year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 285—Comprehensive case. Senior year. No credit.

Each student is assigned a case for which he performs all the dental services: taking of x-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

Formerly *Pharmacology 250*.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY: Gross anatomy: Stedman, Gould, or *American, Medical Dictionary*; Cunningham, *Manual of Practical Anatomy*, Vols. II and III; mimeographed *Dissecting Directions*; one of the following three: Grant, *Atlas of Anatomy*; Truex and Kellner, *Detailed Atlas of the Head and Neck*; or Spalteholz, *Hand Atlas of Human Anatomy*.

Applied anatomy: Shapiro, *Applied Anatomy of the Head and Neck* (2d ed.).

Embryology: One of the following three: Arey, *Developmental Anatomy*; Hamilton, *Human Embryology*; or Patten, *Human Embryology*.

Microscopic anatomy: Bailey, *Textbook of Histology* (12th ed.); mimeographed laboratory manual.

Neuroanatomy: Strong and Elwyn, *Human Neuroanatomy*; mimeographed laboratory manual.

Oral anatomy: Diamond, *Dental Anatomy* (3d ed.).

Oral histology and embryology: Orban, *Oral Histology and Embryology*.

BACTERIOLOGY: Jordan and Burrows, *Textbook of Bacteriology* (14th ed.); or Dubos, *Bacterial and Mycotic Infections of Man*; and Rivers, *Viral and Rickettsial Infections of Man*; and laboratory manual in medical bacteriology and immunology.

BIOCHEMISTRY: Harrow, *Textbook of Biochemistry* (4th ed.); Karshan, *Laboratory Manual of Biochemistry for Dental Students*.

DENTAL ETHICS AND PRACTICE MANAGEMENT: McGehee and Walker, *Dental Practice Management*.

DENTAL THERAPEUTICS: Council on Therapeutics, American Dental Association, *Accepted Dental Remedies*.

DIAGNOSIS: Ziskin et al., *Differential Diagnosis* (1st ed.); Ziskin, *Pulp Symptomatology*, (1943 ed.).

MEDICINE: Yater, *Fundamentals of Internal Medicine* (2d rev. ed.).

OPERATIVE DENTISTRY: Black, *Operative Dentistry*, Vols. II and III; *Operative Dentistry Syllabus*.

ORAL PATHOLOGY: Cahn, *Pathology of the Oral Cavity*.

ORTHODONTICS: Salzman, *Principles of Orthodontics*.

PATHOLOGY: One of the following four: Boyd, *Textbook of Pathology*; Karsner, *Textbook of Pathology*; Moore, *Textbook of Pathology*; or *Anderson's Pathology*.

PEDODONTICS: McBride, *Juvenile Dentistry*.

PERIODONTOLOGY: Goldman, *Periodontia*.

PHARMACOLOGY: One of the following four: Gaddum, *Pharmacology*; Goodman and Gilman, *Pharmacological Basis of Therapeutics* (1941); Sollman, *Pharmacology*; or Oldham, Kelsey, and Geiling, *Essentials of Pharmacology*.

PHYSIOLOGY: One of the following three: MacLeod's (ed. Bard) *Physiology in Modern Medicine*; Howell's (ed. Fulton) *Textbook of Physiology*; or Best and Taylor, *Physiological Basis of Medical Practice*; *Physiology Laboratory Manual*.

PROSTHETIC DENTISTRY: Skinner, *Science of Dental Materials*; Swenson, *Complete Dentures*; Tylman, *Crown and Bridge Prothesis*; United States Government Printing Office, *Physical Properties of Dental Materials*, Bureau of Standards Circular C433; Young et al., *Syllabus on Complete Dentures*.

PSYCHIATRY: Noyes, *Modern Psychiatry*; Cobb, *Foundations of Neuro-psychiatry*, (3d rev. ed., 1944).

RADIOLOGY: McCall and Wald, *Clinical Dental Roentgenology* (2d ed.).

SURGERY: Berger, *Principles and Technique of Oral Surgery*; Berger, *Principles and Technique of the Removal of Teeth*; Parker, *Synopsis of Traumatic Injuries of the Face and Jaw*; Homan, *Textbook of Surgery*.

STUDENT ORGANIZATIONS

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 percent of the members of the graduating Senior class, based on scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

"DENTAL ABSTRACTS"

Dental Abstracts is an official publication of the School of Dental and Oral Surgery of the Faculty of Medicine, written and published by the Dental Abstracts Society, an undergraduate organization. This periodical is issued four times yearly and is received by libraries, hospitals, dental, medical, and public health schools, organizations, and individuals throughout the world.

With the active guidance and coöperation of the officers of instruction of the School, undergraduate students read and abstract the current dental and related literature for publication in this journal. Undergraduate participation in this program is urged not only to assure continuation of this worthy project but, more important, to acquaint the student intimately with the recent advances in dental science and to gain sound principles toward the proper evaluation of the current literature.

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (a) the use of names in which the name of the University is embodied or suggested, and (b) the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and the nature of any affiliation or connection with non-University organizations.

FACILITIES

LIBRARY

The Library occupies part of the three lower floors in the College building. It is the seventh largest medical library in the country and the second in size among medical school libraries. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, and through its unique bibliographical service.

The Library contains approximately one-hundred fifty thousand volumes of books and journals, some five-thousand pamphlets and about two-thousand lantern slides on the history of medicine. More than fifteen-hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The Library is normally open:

Monday-Friday	8:30 A.M.—10:00 P.M.
Saturday	9:00 A.M.— 6:00 P.M.
Sunday	10:00 A.M.— 2:00 P.M.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry, and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker.

STUDENT HEALTH SERVICE

Daily office hours are held for sick students, by the Students Health Service, in Room 2-220 of the Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall, and the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University, the Rev. JAMES A. PIKE, is assisted by three Religious Counselors: the Rev. J. EDWARD DIRKS, Counselor to Protestant Students; the Rev. JOHN K. DALY, Counselor to Roman Catholic students; and Rabbi ISIDOR B. HOFFMAN, Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves with the schedules which are conveniently posted.

A number of student religious organizations are established to which the Chaplain and Counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the Counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

The Men's Residence Halls, located on the 116th Street Campus, house unmarried men students. For further information write direct to the Residence Halls Office, Room 125, Livingston Hall, Columbia University, New York 27, N. Y.

Johnson Hall, a residence hall for graduate women students, is available for unmarried women students on a room and board basis. For further information write to the Head of Johnson Hall, Columbia University, New York 27, N. Y.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write directly to International House, 500 Riverside Drive, New York 27, N. Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 a.m. to 5:30 p.m.; Saturdays, 8:45 a.m. to 1:30 p.m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, published by Columbia University Press. The book also contains an account of the University's history and traditions.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1, 600. Applications should be submitted on or before March 1 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 15.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in pedodontics has been established by the Class of 1929.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT AID

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

THE ASSOCIATION OF THE ALUMNI OF THE
SCHOOL OF DENTAL AND ORAL SURGERY

President, WILLIAM GIBLIN

President-elect, NATHANIEL DINER

Vice-President, JOHN T. FLYNN

Secretary, HERMAN MALTER

Treasurer, GEORGE TRATTNER

Editor, BENJAMIN KAMRIN

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

OFFICERS OF INSTRUCTION

- HAROLD ALEXANDER ABRAMSON *Assistant Clinical Professor of Physiology*
A.B., Columbia, 1920; M.D., 1923.
- THOMAS H. ALLEN *Assistant Professor of Physiology*
A.B., Iowa, 1936; Ph.D., 1941.
- ¹VIRGINIA APGAR *Professor of Anesthesia*
A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933.
- EDMUND APPLEBAUM *Assistant Professor of Dental Anatomy*
D.D.S., New York College of Dentistry, 1922.
- HENRY ARTHUR BARTELS *Assistant Professor of Dental Pathology*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
- ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909; F.A.C.D., 1927.
- FRANK E. BEUBE *Associate Clinical Professor of Dentistry*
L.D.S., D.D.S., Toronto, 1930.
- SAMUEL BIRENBACH *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917.
- HAROLD WILLIAM BROWN *Professor of Parasitology*
A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936.
- LESTER RICHARD CAHN *Associate Professor of Dental Pathology*
D.D.S., New York College of Dentistry, 1917.
- HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1914.
- LOUIS ALEXANDER COHN *Assistant Clinical Professor of Dentistry*
D.D.S., Pennsylvania, 1926.
- WILFRED MONROE COPENHAVER *Associate Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- JOSEPH ANTHONY CUTTITA *Assistant Professor of Dentistry*
A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939.
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (*hon.*), 1931.
- MOSES DIAMOND *Professor of Dental Anatomy*
D.D.S., New York College of Dentistry, 1914.
- ²BION R. EAST *Associate Dean (Dental and Oral Surgery); Executive Officer, Department of Dental and Oral Surgery; Professor of Dentistry*
D.D.S., Michigan, 1908.
- ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917.

¹ On leave January 1 to June 30, 1950.

² On leave July 1 to September 30, 1949.

- ¹EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- JOHN WILLIAM FERTIG *Professor of Biostatistics*
A.B., Ursinus, 1931; Ph.D., Minnesota, 1935.
- JOSEPH E. FLYNN *Associate Professor of Pathology*
A.B., Columbia (Iowa), 1933; M.D., Iowa, 1938.
- HARRY ALLEN GALTON *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1932.
- ALFRED GILMAN *Professor of Pharmacology*
B.S., Yale, 1928; Ph.D., 1931.
- LEONARD J. GOLDWATER *Professor of Industrial Hygiene*
A.B., Michigan, 1924; M.D., New York University, 1928; Med.Sc.D., Columbia, 1937; M.S.P.H., 1941.
- JOHN E. GORRELL *Associate Professor of Hospital Administration*
B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930.
- WILSON C. GRANT *Assistant Professor of Physiology*
A.B., Wesleyan, 1937; A.M., 1938; Ph.D., Maryland, 1942.
- MAGNUS INGSTRUP GREGERSEN *Dalton Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- JOHN M. HENDERSON *Professor of Sanitary Science*
C.E., Cornell, 1927.
- ROBERT E. HERLANDS *Assistant Professor of Dentistry*
A.B., Columbia, 1941; D.D.S., 1944.
- MAURICE J. HICKEY *Professor of Oral Surgery*
D.M.D., Harvard, 1932; M.D., Columbia, 1937.
- GEORGE W. HINDELS *Assistant Clinical Professor of Dentistry*
M.D., Vienna, 1938; D.D.S., Columbia, 1943.
- HOUGHTON HOLLIDAY *Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917; D.D.S. (*hon.*), Montreal, 1945.
- IRVIN LELAND HUNT, JR. *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1929.
- CLAUS WASHINGTON JUNGBLUT *Professor of Bacteriology*
M.D., Berne, 1921.
- ²MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- DANIEL M. KOLLEN *Assistant Clinical Professor of Dentistry*
D.D.S., New York University, 1924.
- BARNET M. LEVY *Professor of Dentistry*
A.B., Pennsylvania, 1938; D.D.S., 1942; M.S., Virginia, 1944.
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914.

¹ On leave Winter Session.² On leave September 1, 1949, to May 31, 1950.

- GEORGE FRANK LINDIG *Assistant Clinical Professor of Dentistry*
D.D.S., Minnesota, 1924.
- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921.
- SAUL MISHELOFF *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1922.
- EDWARD GERALD MURPHY *Associate Clinical Professor of Dentistry*
D.D.S., Michigan, 1924.
- ¹HARRY STOLL MUSTARD *Associate Dean (Public Health); DeLamar*
Professor of Public Health Practice; Director, School of Public Health
M.D., Medical College of the State of South Carolina, 1911; B.S., College of Charleston, 1914;
LL.D., 1938.
- WILLIAM LEO NASTUK *Assistant Professor of Physiology*
B.S., Rutgers, 1939; Ph.D., 1945.
- ALVIN S. NATHAN *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1926; B.S., New York University, 1935; M.A., 1938.
- JOHN LESTER NICKERSON *Associate Professor of Physiology*
A.B., Dalhousie, 1925; A.M., 1928; Ph.D., Princeton, 1935.
- CARL REUBEN OMAN *Professor of Dentistry*
D.D.S., Minnesota, 1914.
- DOUGLAS BURNETT PARKER *Clinical Professor of Oral Surgery*
M.D., Long Island College of Medicine, 1912; D.D.S., Pennsylvania, 1914.
- MAX A. PLEASURE *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1928; M.S.P.H., Columbia, 1941.
- WILLARD COLE RAPPLEYE *Dean, Faculty of Medicine; Vice President in*
Charge of Medical Affairs; Professor of Medical Economics
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (*hon.*), Yale, 1922; Sc.D., Trinity (Conn.),
1939; Rutgers, 1949.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT *Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- ²THEODOR ROSEBURY *Associate Professor of Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Associate Professor of Dentistry*
B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930.
- WILLIAM J. SAVOY *Assistant Clinical Professor of Dentistry*
B.S., Manhattan, 1931; D.D.S., Columbia, 1935.
- SAUL SCHLUGER *Assistant Clinical Professor of Dentistry*
D.D.S., Louisville, 1931.

¹ On leave July 1 to December 31, 1949.

² On leave 1949-1950.

- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922.
- HARRY H. SHAPIRO *Assistant Professor of Anatomy*
D.D.M., Tufts, 1918.
- WILLIAM H. SILVERSTEIN *Assistant Clinical Professor of Dentistry*
D.D.S., Maryland, 1937.
- GEORGE K. SMELSER *Associate Professor of Anatomy*
A.B., Earlham, 1929; Ph.D., Chicago, 1932.
- GILBERT PERCIVAL SMITH *Professor of Dentistry*
D.D.S., Minnesota, 1927.
- HARRY PRATT SMITH *Delafeld Professor of Pathology*
A.B., California, 1916; M.S., 1918; M.D., 1921.
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912; Sc.D., Princeton, 1948.
- LEO STERN, SR. *Clinical Professor of Dentistry*
D.D.S., New York College of Dentistry, 1912.
- FRANCES A. STOLL *Assistant Professor of Dental Hygiene*
R.D.H., Columbia, 1934; B.S., 1944; M.A., 1945; Ed.D., 1949.
- LEWIS RIDDELL STOWE *Professor of Dentistry*
D.D.S., Minnesota, 1916.
- DAVID TANCHESTER *Clinical Professor of Dentistry*
D.D.S., New York University, 1921.
- ARTHUR CRANSTON TOTTEN *Professor of Dentistry*
D.D.S., Pennsylvania, 1926.
- HARRY BENJAMIN VAN DYKE *Hosack Professor of Pharmacology*
B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923.
- WILLIAM WELCH WALCOTT *Assistant Professor of Physiology*
A.B., Yale, 1933; Ph.D., Columbia, 1944.
- SHIH-CHUN WANG *Associate Professor of Physiology*
B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940.
- EDWARD VICTOR ZEGARELLI *Associate Professor of Dentistry*
A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942.
-
- HOWARD ARDEN, B.S., D.D.S. *Assistant in Dentistry*
- HERBERT DELBERT AYERS, JR., A.B., D.D.S. *Instructor in Dentistry*
- ¹BERT BALLIN, A.B., D.D.S. *Assistant in Dentistry*
- HERBERT BARTELSTONE, B.S., D.D.S. *Research Assistant in Dentistry*
- CARLISLE C. BASTIAN, D.D.S. *Lecturer in Dentistry*

¹ On leave 1949-1950.

OSCAR EDWARD BEDER, B.S., D.D.S.	<i>Instructor in Dentistry</i>
JAMES WINSTON BENFIELD, A.B., D.D.S..	<i>Instructor in Dentistry</i>
DOROTHY R. BLITSTEN, Ph.B.	<i>Lecturer in Dental Hygiene</i>
IGNAZIO F. BOSCARIELLI, B.S., D.D.S.	<i>Assistant in Dentistry</i>
¹ STANISLAW H. BRZUSTOWICZ, B.S., D.D.S.	<i>Assistant in Dentistry</i>
JACK BUDOWSKY, D.D.S.	<i>Instructor in Dentistry</i>
THEODORE M. BUNDRANT, D.D.S.	<i>Instructor in Dentistry</i>
EDWARD A. CAIN, B.S., D.D.S.	<i>Instructor in Dentistry</i>
² NICHOLAS J. CAVA, D.D.S.	<i>Assistant in Dentistry</i>
NEAL W. CHILTON, B.S., D.D.S., M.P.H.	<i>Lecturer in Dentistry</i>
ADA R. CLARK, B.S., A.M., Ph.D.	<i>Associate in Bacteriology</i>
GEORGE B. CROZAT, D.D.S.	<i>Lecturer in Dentistry</i>
KOURKEN A. DAGLIAN, B.S., D.D.S.	<i>Assistant in Dentistry</i>
ROBERT CYRIL DEVINE, B.S., D.D.S.	<i>Instructor in Dentistry</i>
FRANK E. DIXON, B.A., B.S., D.D.S.	<i>Instructor in Dentistry</i>
JOHN J. DOLCE, B.S., D.D.S.	<i>Assistant in Dentistry</i>
¹ DAVID A. DRAGIFF, B.S., D.D.S.	<i>Research Assistant in Dentistry</i>
SAMUEL BERGER DRELICH, D.D.S.	<i>Instructor in Dentistry</i>
JOSEPH D. EBY, D.D.S.	<i>Lecturer in Dentistry</i>
JACOB FEINMAN, B.S., LL.B., D.D.S.	<i>Instructor in Dentistry</i>
JOSEPH E. FIASCONARO, B.S., D.D.S.	<i>Instructor in Dentistry</i>
BARBARA JANE FINK, R.D.H.	<i>Assistant in Dental Hygiene</i>
WALTER H. FORDHAM, JR., D.D.S.	<i>Research Assistant in Dentistry</i>
HERBERT PHILIP FRITZ, D.D.S.	<i>Instructor in Dentistry</i>
HERMAN GLADSTONE, B.S., M.D.	<i>Instructor in Anatomy</i>
BENJAMIN WILLIAM GLICK, B.S., A.M., M.D.	<i>Instructor in Anatomy</i>
EVELYN R. HANNON, R.D.H.	<i>Assistant in Dental Hygiene</i>
AXEL HANSON	<i>Instructor in Dental Technique</i>
LEONARD HIRSCHFELD, A.B., D.D.S.	<i>Instructor in Dentistry</i>

¹ On leave 1949-1950.² On leave July 1 to December 31, 1949.

JOHN D. HOGAN, B.S., D.D.S.	<i>Instructor in Dentistry</i>
NICHOLAS IPPOLITO, D.D.S.	<i>Assistant in Dentistry</i>
JAMES JAY, D.D.S.	<i>Instructor in Dentistry</i>
JOSEPH E. JOHNSON, D.D.S.	<i>Lecturer in Dentistry</i>
SOLOMON L. KATZ, D.D.S.	<i>Research Assistant in Dentistry</i>
MORRIS KAVELLE, B.S., D.D.S.	<i>Instructor in Dentistry</i>
BERTRAM KLATSKIN, A.B., D.D.S.	<i>Assistant in Dentistry</i>
STANLEY L. LANE, B.S., M.D., D.D.S.	<i>Instructor in Oral Surgery</i>
WILLIAM H. LEAK, D.D.S. {	<i>Curator of the Museum, Dental and Oral Surgery</i> <i>LECTURER IN DENTAL HISTORY</i>
EVALD LINDER	<i>Instructor in Dental Radiology Technique</i>
JULIUS K. LITTMAN, M.D.	<i>Instructor in Anatomy</i> ✓
JOSEPH LUBAN, B.S., D.D.S.	<i>Research Assistant in Dentistry</i>
JOHN J. LUCCA, A.B., D.D.S.	<i>Assistant in Dentistry</i>
HARRIET G. MCCORMICK, A.M., Ph.D.	<i>Lecturer in Dental Hygiene</i>
CLARE K. MADDEN, D.D.S.	<i>Instructor in Dentistry</i>
IRWIN D. MANDEL, B.S., D.D.S.	<i>Research Assistant in Dentistry</i>
ARTHUR H. MERRITT, D.D.S., M.S., Sc.D.	<i>Lecturer in Dentistry</i>
JOHN V. MERSHON, D.D.S., D.Sc. (<i>hon.</i>)	<i>Lecturer in Dentistry</i>
HENRY MILCH, A.B., M.D.	<i>Instructor in Anatomy</i> ✓
WILLIAM MILLER, B.S., D.D.S.	<i>Instructor in Dentistry</i>
WILLIAM JOHN MILLER, A.B., D.D.S.	<i>Instructor in Dentistry</i>
STANLEY F. NIEF, A.B., D.D.S.	<i>Assistant in Dentistry</i>
ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S.	<i>Lecturer in Dentistry</i>
MIRIAM C. PRITCHARD, B.A., M.D., Ph.D.	<i>Lecturer in Dental Hygiene</i>
FRED ROTHENBERG, D.M.D., D.D.S.	<i>Instructor in Dentistry</i>
BOBB SCHAEFFER, A.B., A.M., Ph.D.	<i>Lecturer in Dentistry</i>
LOUIS LASZLO SCHWARTZ, B.S., D.D.S.	<i>Lecturer in Dentistry</i>
BOAZ SHATTAN, A.B., D.D.S.	<i>Instructor in Dentistry</i>
HAROLD SHERMAN, B.S., D.D.S.	<i>Instructor in Dentistry</i>
HERBERT F. SILVERS, B.S., D.D.S.	<i>Research Associate in Dentistry</i>

FRANKLIN A. SQUIRES, D.D.S.	Lecturer in Dentistry
GEORGE STEIN, M.D., D.M.D.	Research Associate in Dentistry
LEO STERN, JR., A.B., D.D.S.	Assistant in Dentistry
WALTER W. STEVENS, D.D.S.	Instructor in Dentistry
FERDINAND A. STEWART, JR., A.B., D.D.S.	Instructor in Dentistry
HARRY STRUSSER, D.D.S.	Lecturer in Dentistry
BENJAMIN TENENBAUM, B.S., D.D.S.	Research Associate in Dentistry
WILLIAM A. THEMANN, D.D.S.	Instructor in Dentistry
¹ JOSEPH J. C. THOMSON, D.D.S.	Assistant in Dentistry
FERDINAND A. TUOTI, D.M.D.	Assistant in Dentistry
WILLIAM A. VERLIN, A.B., D.D.S.	Instructor in Dentistry
CLIFFORD L. WHITMAN, D.D.S.	Instructor in Dentistry
GLENN H. WHITSON, D.D.S.	Instructor in Dentistry
FREDERICK F. YONKMAN, A.B., Ph.D., M.D.	Lecturer in Pharmacology

CLINICAL ASSISTANTS

AARON L. ACKERMAN, D.D.S., M.P.H.	GEORGE MINERVINI, A.B., D.D.S.	OS
RALPH BECKER, B.S., D.D.S.	MELVIN MORRIS, B.S., A.M., D.D.S.	OS
HAROLD E. BRENNAN, D.D.S.	HOWARD B. MOSHMAN, D.D.S.	OS
SEBASTIAN A. BRUNO, D.M.D.	DAVID MOSSBERG, D.D.S.	OS
SOL J. EWEN, B.S., D.D.S.	HENRY I. NAHOUM, A.B., D.D.S.	OS
WESLEY HALPERT, B.S., D.D.S.	JOHN D. PIRO, D.D.S.	OS
EDWARD HEIDT, D.D.S.	NATHANIEL RATTNER, D.D.S.	OS
STANLEY S. HELLER, B.S., D.D.S.	JULIAN SCHROFF, B.S., D.D.S.	OS
ELLEN N. HOSIOSKY, D.M.D., D.H., D.D.S.	PAUL C. SEXAUER, B.S., D.D.S.	OS
ROBERT G. KROLL, D.D.S.	WALTER G. SPENGEMAN, A.B., D.D.S.	OS
AUSTIN H. KUTSCHER, A.B., D.D.S.	IRWIN TEKULSKY, D.D.S.	OS
ALEXANDER LEFF, D.D.S.	EDWARD E. TELTSCH, A.B., D.D.S.	OS
SIMON L. LIFTON, A.B., D.D.S.	ENNIO L. UCCELLANI, D.D.S.	OS
EDWARD S. LUBOJA, D.D.S.	VINCENT D. VARALLO, B.S., D.D.S.	OS
	DAVID ZEISLER, B.S., D.D.S.	OS

PRESBYTERIAN HOSPITAL DENTAL SERVICE

¹ SAMUEL BIRENBACH, Director

Attending Dental Surgeons

ADOLPH BERGER
 MOSES DIAMOND
 HOUGHTON HOLLIDAY
 CARL R. OMAN

GILBERT P. SMITH
 LEWIS R. STOWE
 ARTHUR C. TOTTEN

¹ On leave July 1, 1949, to March 15, 1950.

Associate Attending Dental Surgeons

LESTER R. CAHN
IRVIN L. HUNT, JR.

SOLOMON N. ROSENSTEIN
JOSEPH SCHROFF

Assistant Attending Dental Surgeons

OSCAR E. BEDER
FRANK E. BEUBE
EDWARD A. CAIN
FRANK E. DIXON

ALVIN S. NATHAN
WILLIAM J. SAVOY
EDWARD V. ZEGARELLI
ALBIN R. SEIDEL, *Consultant*

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., *Assistant Attending Surgeon*
STANLEY L. LANE, B.S., M.D., D.D.S., *Assistant Attending Surgeon*

*Should be as 1950-51 Bulletin
for 51-52
(Rec. 3/1/51 to R. P. Hays) Acting*

Presbyterian Hospital Dental Service

*Lewis R. Atwood, Director
attending dental Surgeons*

*Laughton Hollingsworth
Earl L. Oman
Herbert P. Smith*

*Joseph Schroff
Nathan Taiter*

associate attending dental Surgeons

*Lester R. Cahn
Irvin L. Hunt, Jr.
Robert W. Levy*

*Alvin S. Nathan
Solomon N. Rosenstein
William J. Savoy
Edward V. Zegarelli*

Assistant Attending dental Surgeons

*Oscar E. Beder
Frank E. Beube
Jack Budanovsky*

*Edward A. Cain
Ray Shannon
Albin R. Seidel, consultant*

Interns

*George Hays 10/1/50 to 3/30/51
Leonard A. Lavinia, Jr. 4/1/51 to 6/30/51*

George Hays

REGISTER OF STUDENTS

GRADUATES—CLASS OF JUNE, 1948¹⁹⁴⁹

Arsilan, Paul	New York City	Klickstein, Melvin	Malden, Mass.
A.B., New York University, 1943		Massachusetts State; Trinity (Conn.)	
Auerbach, Gabriel Irving	Springfield, Mass.	Korniewicz, John Alexander	Brooklyn, N. Y.
B.S., Massachusetts State, 1941		St. Francis' (N. Y.); Holy Cross	
Auslander, Irwin Howard	Brooklyn, N. Y.	Lazoff, Arthur	New York City
New York University		B.S., College of the City of New York, 1944	
Baurmash, Harold Daniel	New York City	Lewis, Robert Mervin	Newark, N. J.
B.S., New York University, 1945		Rutgers	
Blanco-Dalmau, Luis	Rio Piedras, Puerto Rico	Loeb, Morton Samuel	Laurelton, N. Y.
University of Puerto Rico		Queens; Colgate	
Blugerman, John Mark	Brooklyn, N. Y.	McGann, Donald Michael	New York City
A.B., Columbia, 1944		A.B., St. Peter's (N. J.), 1943	
¹ Breheny, John Martin	New York City	Maillard, Gene Charles	Ridgewood, N. Y.
Fordham		Fordham; New York University	
Cacciola, Frank James	Jackson Heights, N. Y.	Mand, Stanley Mervin	Brooklyn, N. Y.
St. John's (N. Y.)		New York University	
Cava, Nicholas Joseph	Bethpage, N. Y.	Marmer, David	New York City
Long Island		A.B., New York University, 1944	
² Deesen, Kenneth Charles	Glendale, N. Y.	Miller, Harold	New York City
Queens; Massachusetts	Institute of Tech-	B.S., Long Island, 1939; M.S., New York	
nology		University, 1942	
Delasho, James William	Yonkers, N. Y.	Pino, Rudolph Victor	Brooklyn, N. Y.
B.S., Manhattan, 1943		B.S., Fordham, 1943	
Derevlany, Michael John	Whitestone, N. Y.	Portale, Joseph Sebastian	Ridgewood, N. J.
A.B., Columbia, 1944		Villanova	
Disick, Donald	Brooklyn, N. Y.	Prince, Ivin Bittker	New York City
Brooklyn		A.B., New York University, 1943	
² Engel, Walter Frederick, Jr.	Brooklyn, N. Y.	Rasi, Howard Blades	Brooklyn, N. Y.
Wesleyan		A.B., Cornell, 1939	
Englander, Harold Robert	New York City	M.D., New York Medical College, 1943	
College of the City of New York; Washing-		Rebhun, Lionel Earl	New York City
ton (Mo.)		College of the City of New York	
² Fenning, Howard Rassler	Middletown, N. Y.	Robinson, Irwin Schnoll	Jackson Heights, N. Y.
A.B., Lafayette, 1942		B.S., College of the City of New York, 1944	
Friedman, Jay Wolfe	Hempstead, N. Y.	Scrivani, Steven Silvio	Brooklyn, N. Y.
North Carolina		Brooklyn	
Goldwasser, Joseph Max	Brooklyn, N. Y.	² Shapiro, Sidney	New York City
Brooklyn; Union		Hofstra; New York University	
Halla, Paul Emil	New York City	Stein, Joseph Robert	New York City
New York University		College of the City of New York; New York	
Haufe, Thomas Robert	New York City	University; Cornell University; Yale Uni-	
Fordham; Cornell		versity	
Jurka, Charles Edward	Croton-on-Hudson, N. Y.	Stern, Eli Sheldon	New York City
Hamilton		New York University; Columbia	
Kantorowitz, Leo	Providence, R. I.	Stern, Peter Edward	New York City
B.S., Providence, 1944		Columbia	
Klein, Harold Jacques	New York City	Uccellani, Ennio Louis	New York City
A.B., New York University, 1943		College of the City of New York; Cornell	
		Zinn, Arthur, Jr.	San Diego, Calif.
		San Diego State; Notre Dame	

SEPTEMBER 9, 1948 TO JUNE 1, 1949

FOURTH YEAR—CLASS OF JUNE, 1949

Andreozzi, Armando Edmond	Providence, R. I.
Brown; Tufts	

Berg, Marc Louis	New York City
Cornell	
Breuer, Jack M.	New York City
A.B., Columbia, 1946	

¹ February 25, 1948.

² September 1, 1948.

- Cook, Dana Ellsworth Tarrytown, N. Y.
Massachusetts Institute of Technology; Col-
gate
- Docktor, John Paul Ellsworth, Pa.
B.S., Pittsburgh, 1941; M.D., George Wash-
ington, 1943
- Freedman, Leonard Irving Cedarhurst, N. Y.
Wisconsin; New York University
- John, Hedda Maria New York City
M.D., Prague (Czechoslovakia), 1925;
D.D.S., 1933
- Karlan, Frances Ross New York City
B.S., Massachusetts Institute of Technology,
1942
- Kurzius, George Brooklyn, N. Y.
A.B., New York University, 1941
- Levin, Alex Elihu New York City
George Washington
- McAllister, Charles Bruce, Jr. Elmhurst, N. Y.
B.S., Fordham, 1944
- Popper, Alfred New York City
M.D., Hamburg (Germany), 1934
- Prata, Raymond Louis New York City
B.S., Fordham, 1943
- Richmond, Julius Kenrick Makepeace
Georgetown, B. G.
Queens College (British Guiana); Columbia
Yanowitz, Bernard Malone, N. Y.
St. Lawrence
- Menken, George Jackson Heights, N. Y.
Cornell; Queens College
- Nebel, Arthur John, Jr. Elizabeth, N. J.
Centre College; Columbia
- O'Loughlin, John Joseph
Howard Beach, N. Y.
B.S., Fordham, 1946
- Pomerantz, Alan Saul Brooklyn, N. Y.
A.B., Brown, 1946
- Russo, Michael Archangel Elizabeth, N. J.
B.S., Fordham, 1942
- Savad, Sol Brooklyn, N. Y.
- Schwartz, Stanley Irving Poughkeepsie, N. Y.
A.B., Bard, 1945
- Shapiro, Morton Louis Brooklyn, N. Y.
B.S., Willamette, 1947
- Sherr, Leonard Allen New York City
College of the City of New York; Wisconsin
- Tansky, Joseph Brooklyn, N. Y.
- Tiernan, Vincent Clifford New York City
B.S., Manhattan, 1942
- Vairo, George Gerard New York City
B.S., Fordham, 1942
- Vogel, Howard Bernard New York City
College of the City of New York; Bates;
Rochester

1944 to June 1945

THIRD YEAR—CLASS OF JUNE, 1950

- Barlow, Carl Morton New York City
A.B., New York University, 1946
- Buslowe, Louis New Haven, Conn.
A.B., Yale, 1938
- Citron, Hyman Allan New York City
B.S., College of the City of New York, 1946
- Dowling, James Glenville Fairfield, Conn.
Fordham; St. Lawrence
- Fitz-Gibbon, Francis John Holyoke, Mass.
Providence College
- Furgang, Murray Pelham Manor, N. Y.
College of the City of New York; St. John's
(N. Y.); Fordham; New York University
- Harnett, William Watkins Englewood, N. J.
Detroit; Hanover; Columbia
- Harris, Stanford New York City
College of the City of New York; Gonzaga
University; University of Washington
- Henrich, Edwin John New Rochelle, N. Y.
New York University; Buffalo; Cornell
- Jacklyn, Herbert Barre New York City
College of the City of New York
- Jenkins, Cornelius Willis New York City
A.B., Lincoln, 1946
- Jussim, Julius New York City
B.S., College of the City of New York, 1938
- Lemrow, Maynard Wesley Stratford, Conn.
Westminster (Pa.); Bethany (W. Va.)
- Levine, Charles Lester New York City
College of the City of New York; Wisconsin;
Ohio; Michigan
- Loeffler, George Henry Jamaica, N. Y.
Manhattan College
- McManus, Philip Patrick, Jr. New York City
A.B., Illinois, 1942
- Adams, Roger Pettingell Westbrook, Maine
B.S., Bowdoin, 1946
- Bruder, George Allan New York City
B.S., College of the City of New York, 1945
- Cohen, Eugene A. Brooklyn, N. Y.
Brooklyn
- Friedman, Edward U. Hempstead, N. Y.
Mt. Union; New York University
- Goulian, Dicran, Jr. Weehawken, N. J.
Columbia
- Greenier, Robert David Orangeburg, N. Y.
B.S., Fordham, 1941
- Griffin, Edward Mitchell Mt. Vernon, N. Y.
A.B., Dartmouth, 1947
- Hershey, Robert New York City
B.S., College of the City of New York, 1947
- Houser, William Wyman Yorkville, N. Y.
Colgate
- Kutner, Philip Corona, N. Y.
B.S., College of the City of New York, 1944
- Machenberg, Stanley Ellis Stamford, Conn.
B.S., Connecticut, 1943
- Mellow, Emil Anthony Old Forge, Pa.
Scranton
- Moschella, Joseph Staten Island, N. Y.
A.B., Norwich, 1937
- Murakami, Kenneth Kiyoshi Honolulu, T. H.
Hawaii
- Murphy, James Gerard Arlington, N. J.
Newark
- Murray, James Francis New York City
A.B., Notre Dame, 1942
- O'Connor, James Thomas Brooklyn, N. Y.
A.B., St. Peter's (N. J.), 1947
- O'Neill, Frank Deveraux Carle Place, N. Y.
B.S., New York University, 1940; A.M., 1942

Pecora, Francis Nicholas	New York City	Leefer, Norman Harold	Roosevelt, N. J.
A.B., Fordham, 1943		Rutgers	
Platzer, Kenneth Martin	Brooklyn, N. Y.	Mason, David Newton, Jr.	Scarsdale, N. Y.
A.B., Brooklyn, 1942		Wesleyan	
Rivera-Gonzalez, Victor M.	Aibonito, Puerto Rico	Moglia, Alfred Bill	Morristown, N. J.
Louisiana State; Tennessee		Diploma of Classical Maturity, R. Convitto Nazionale, Parma, Italy, 1943; University of Parma Medical School; Hunter College	
Seidenberg, Leonard	Syracuse, N. Y.	Perry, Jerome Herbert	Bronx, N. Y.
Syracuse		B.A., New York University, 1948	
Selinger, Jerome	New Brunswick, N. J.	Samuels, Thomas Edward	Forest Hills, N. Y.
Rutgers		Fordham	
Silverstein, Harold	Brooklyn, N. Y.	Steiner, Robert Mark	New York City
A.B., Brooklyn, 1947		A.B., Columbia, 1948	
Storella, John Alfonso	Boston, Mass.	Sydow, Gunnar Eugene	Hackensack, N. J.
B.S., Massachusetts State, 1947		Texas; A.B., Colgate, 1948	
Tolmach, Herbert	New York City	VanBuren, Robert Harold	New York City
A.B., New York University, 1947		St. Lawrence	
Tripodi, Joseph John	Tonawanda, N. Y.	Zimmerman, Frank, Jr.	Hartford, Conn.
B.S., St. Bonaventure, 1945; M.S., 1947		Wittenberg; B.S., Trinity, 1948	
Worboys, Wilson Thomas	New York City		
A.B., Houghton, 1940			

FIRST YEAR—CLASS OF JUNE, 1952

Berger, Stephen R.	Forest Hills, N. Y.	<i>General Restorative Dentistry</i>	
Manhattan; B.S., Queens College, 1948			
Carrucci, Carmine A.	Bronx, N. Y.	Salamat, Khodabakhsh	Tehran, Iran
St. John's; B.S., Dickenson, 1948		D.D.S., Tehran Dental College, 1943	
DeFrancesco, Louis V.	Stamford, Conn.	Witek, John J.	Greenfield, Mass.
B.S., Fordham, 1948		D.D.S., Northwestern Dental School, 1943	
DeLisi, Joseph Charles	Astoria, N. Y.	<i>Oral Surgery</i>	
College of the City of New York; Fordham			
Falevitch, Norman Calvin	Brooklyn, N. Y.	Shapiro, Robert L.	Brooklyn, N. Y.
College of the City of New York; B.A., Hofstra, 1948		D.D.S., Columbia, 1946	
Fasano, Carmine Mario	Brooklyn, N. Y.	Wade, George W.	Washington, D. C.
Dartmouth; B.S., Harvard, 1946; Brooklyn College		D.D.S., Howard School of Dentistry, 1947	
Finder, Robert Byron	New York City	Zeff, Seymour	Bronx, N. Y.
A.B., Columbia, 1948		D.M.D., Louisville Dental School, 1944	
Firdman, Marvin	Bronx, N. Y.	Zuckerman, Lenard H.	Yonkers, N. Y.
Brooklyn College; B.A., New York University, 1948		D.M.D., Tufts Dental School, 1945	
Gilbert, Albert Kirven, Jr.	Columbus, Ga.	<i>Orthodontics</i>	
Georgia School of Technology; Emory			
Glass, Daniel	Brooklyn, N. Y.	Elvers, Walter Barton	Teaneck, N. J.
B.S., College of the City of New York, 1948		D.D.S., Columbia, 1946	
Gliedman, Monroe Marvin	New York City	Feldstein, Louis	Chicago, Illinois
New York University; B.S., Massachusetts Institute of Technology, 1946		D.D.S., Loyola College of Dental Surgery, 1944	
Gliedman, Richard	New York City	Gottlieb, Eugene	Rockville Center, N. Y.
New York University; B.S., Massachusetts Institute of Technology, 1946		D.D.S., Columbia, 1943	
Guido, Matthew Gabriel	West New York, N. J.	Gross, David J.	Brooklyn, N. Y.
Washington State; Columbia		D.D.S., New York University College of Dentistry, 1945	
Helmer, Morvia Thomas	Prospect, N. Y.	Hester, Howard C.	Englewood, N. J.
Colgate; Utica College of Syracuse		D.D.S., Maryland College of Dental Surgery, 1944	
Kahan, Edward	Bronx, N. Y.	Horowitz, Sidney L.	Brooklyn, N. Y.
Ohio State; Columbia		D.D.S., New York University College of Dentistry, 1945	
Kahan, Robert	Bronx, N. Y.	Johnson, Reidar Conradi	Tonsberg, Sweden
Ohio State; Columbia		D.D.S., Northwestern Dental School, 1948	
Kesseler, Edward Peter	New York City	Kerrigan, James P.	Cleveland, Ohio
Amherst		D.D.S., Western Reserve School of Dentistry, 1946	
Kessler, Harry Samuel	Bronx, N. Y.	Loughlin, Francis J.	Woodhaven, N. Y.
B.A., Pennsylvania, 1948		D.D.S., New York University College of Dentistry, 1939	
Lai, Leonard J. L.	Honolulu, Hawaii	Rechter, Alfred	New Hyde Park, N. Y.
B.S., Hawaii, 1946		D.D.S., Columbia, 1946	

POSTGRADUATE STUDENTS

CANDIDATES FOR THE CERTIFICATE OF TRAINING

- Shwalb, Richard A. Brooklyn, N. Y.
 D.D.S., Columbia, 1945
 Sirna, Lawrence E. Astoria, N. Y.
 D.D.S., Columbia, 1944
 Taft, Leo L. Wantagh, N. Y.
 D.D.S., Pennsylvania School of Dentistry, 1939
 Telsey, Daubert Long Island City, N. Y.
 D.D.S., Columbia, 1947
 Tucker, Joseph K. Brooklyn, N. Y.
 D.D.S., Pennsylvania School of Dentistry, 1944
 Valinoti, Joseph R., Jr. Brooklyn, N. Y.
 D.D.S., Columbia, 1946
 Watkins, Harold E. Amarillo, Tex.
 D.D.S., Pennsylvania School of Dentistry, 1945
 Wein, Stanley L. Lawrence, N. Y.
 D.M.D., Tufts Dental School, 1946
 Weissman, Tobias New York City
 D.D.S., Columbia, 1924

Periodontology

- Barthe, Maurice Quebec, Canada
 D.D.S., Montreal (Canada), 1948
 Butler, Frank M., Jr. Sylvester, Ga.
 D.D.S., Emory, 1947
 Halik, Frederick Joseph Rochester, N. Y.
 A.B., Rochester, 1944; D.D.S., Buffalo, 1946
 Shaw, Jerry D. Shanghai, China
 D.D.S., West China Union (China), 1932

SPECIAL STUDENTS

- Berman, Maurice Samuel Capetown, South Africa
 L.D.S., R.C.S., Royal Dental Hospital of London
 Di Salvo, Nicholas Armand New York City
 D.D.S., Columbia, 1945; B.S., College of the City of New York, 1942
 Ellison, Solon A. New York City
 B.S., Brooklyn, 1942; D.D.S., Columbia, 1946
 Gorlin, Robert James Newark, N. J.
 D.D.S., Washington (Mo.), 1947; A.B., Columbia, 1945
 Raebeck, William, Jr. Belle Harbor, N. Y.
 D.D.S., Columbia, 1947
 Smith, David J. Brooklyn, N. Y.
 D.D.S., Columbia, 1944

SUMMARY

Graduates—June, 1948	46
Fourth Year—Class of June, 1949	15
Third Year—Class of June, 1950	29
Second Year—Class of June, 1951	28
First Year—Class of June, 1952	28
Candidates for Certificates in Training	29
Special Postgraduate Students	6
<i>Total</i>	<i>181</i>

INDEX

- Academic Calendar, 4
- Acceptance fee, 11
- Administrative staff, 6
- Admission: to first year, 8; for foreign students, 10; to Graduate Faculty, 16
- Alumni Association, 31
- Anatomy courses, 19
- Application for admission, 8

- Bachelor of Science, 14
- Bacteriology courses, 19
- Barnard College, combined courses, 10
- Basic sciences graduate courses, 15
- Biochemistry course, 20
- Books required, 25
- Bookstore, 29

- Calendar, Academic, 4
- Certificate of training, 15
- Chapel, 29
- Columbia College, combined courses, 9
- Combined courses, 9
- Commencement, *see* Graduation
- Committee on Dental Education, 6
- Courses of Instruction, 19
- Curriculum, 17

- D.D.S., *see* Doctor of Dental Surgery
- Dental Abstracts*, 27
- Dental hygienists, courses for, 14
- Dental materials course, 20
- Diagnosis courses, 20
- Discipline, 13
- Doctor of Dental Surgery, 14
- Doctor of Philosophy, 16

- Employment, 31
- Equipment, 12
- Expenses, 10

- Facilities of the School, 28
- Faculty of Medicine, 5
- Fees, 10
- Fellowships, 15, 30
- First-year curriculum, 17
- Foreign students, 10
- Fourth-year curriculum, 18

- Grading of students, 14
- Graduate Faculty, admission to, 16
- Graduation, 14
- Guest accommodations, 29
- Gymnasium, 28

- Health service, 28
- Historical statement, 7

- Instruments and supplies, 12
- International House, 29

- Jarvie Society, 27

- King's Crown Hotel, 29

- Library, 28
- License to practice dentistry in New York State, 16
- Loans, 30
- Lockers, 12

- Master of Public Health, 16
- Medical care, 28
- Medicine course, 20
- Microscopes, 12

- New York State Board Examinations, 16

- Officers, 5, 32
- Omicron Kappa Upsilon, 27
- Operative dentistry courses, 20
- Oral hygiene course, 21
- Orthodontics: courses, 21; postgraduate, 15

- Pathology courses, 21
- Pedodontics course, 21
- Periodontology courses, 21
- Pharmacology course, 22
- Ph.D., *see* Doctor of Philosophy
- Physiology course, 22
- Postgraduate courses, 15
- Prizes, 30
- Promotion, requirements for, 13
- Prosthetic dentistry courses, 22
- Psychiatry course, 23
- Public health courses, 23

- Radiology course, 23
- Register of students, 38
- Registration, 10
- Religious life on campus, 29
- Requirements: for admission, 9; for promotion, 13; for graduation, 14

- Scholarships, 30
- School of Public Health, 16
- Second-year curriculum, 18
- Student Health Service, 28
- Student organizations, 27
- Surgery courses, 23

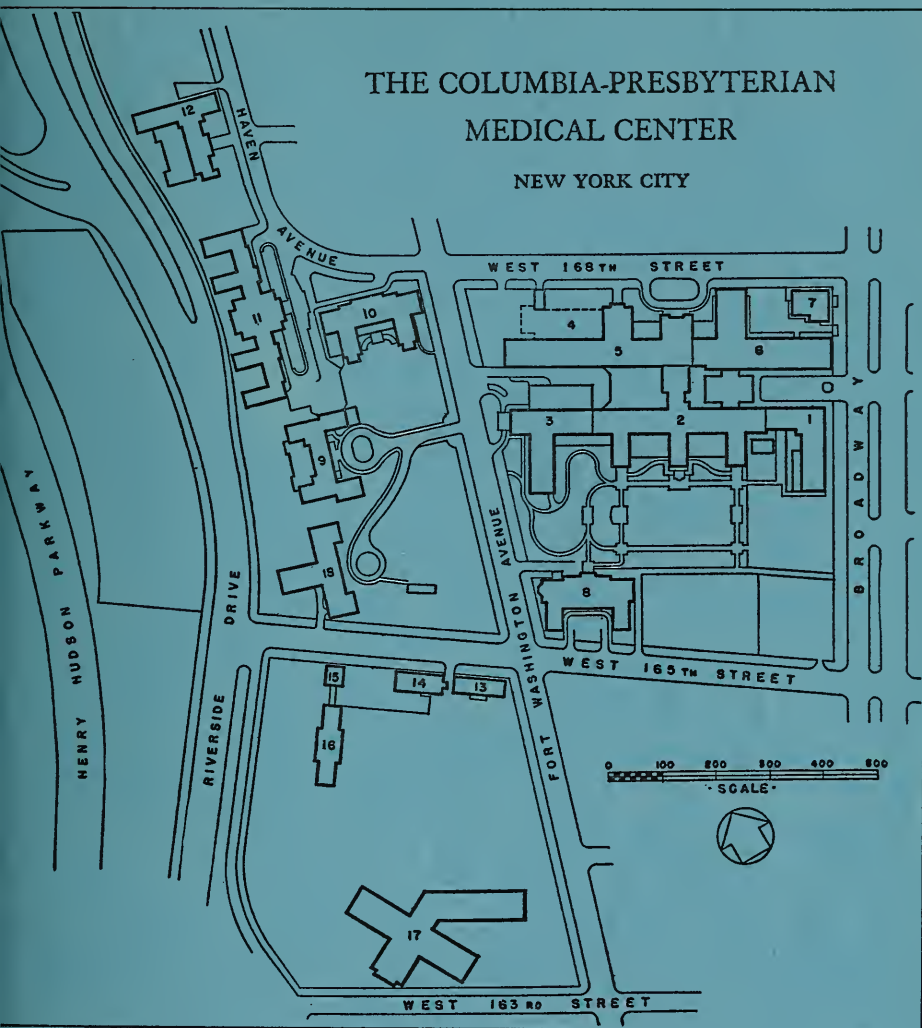
- Textbooks, 25
- Theory and practice of dentistry courses, 24
- Third-year curriculum, 18
- Tuition fees, 11

- University privileges, 28

- William Jarvie Society, 27
- Withdrawal, 13

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

NEW YORK CITY



Babies Hospital

Presbyterian Hospital

Sloane Hospital

Harkness Pavilion

Power plant

College of Physicians and Surgeons

Vanderbilt Clinic

School of Dental and Oral Surgery

Washington Heights Health and Teaching

Center, N. Y. City Dept. of Health

School of Public Health

8. Institute of Ophthalmology

9. Maxwell Hall

10. Neurological Institute

11. N. Y. State Psychiatric Institute and Hospital

12. Bard Hall

13, 16. Storage

14. Shops

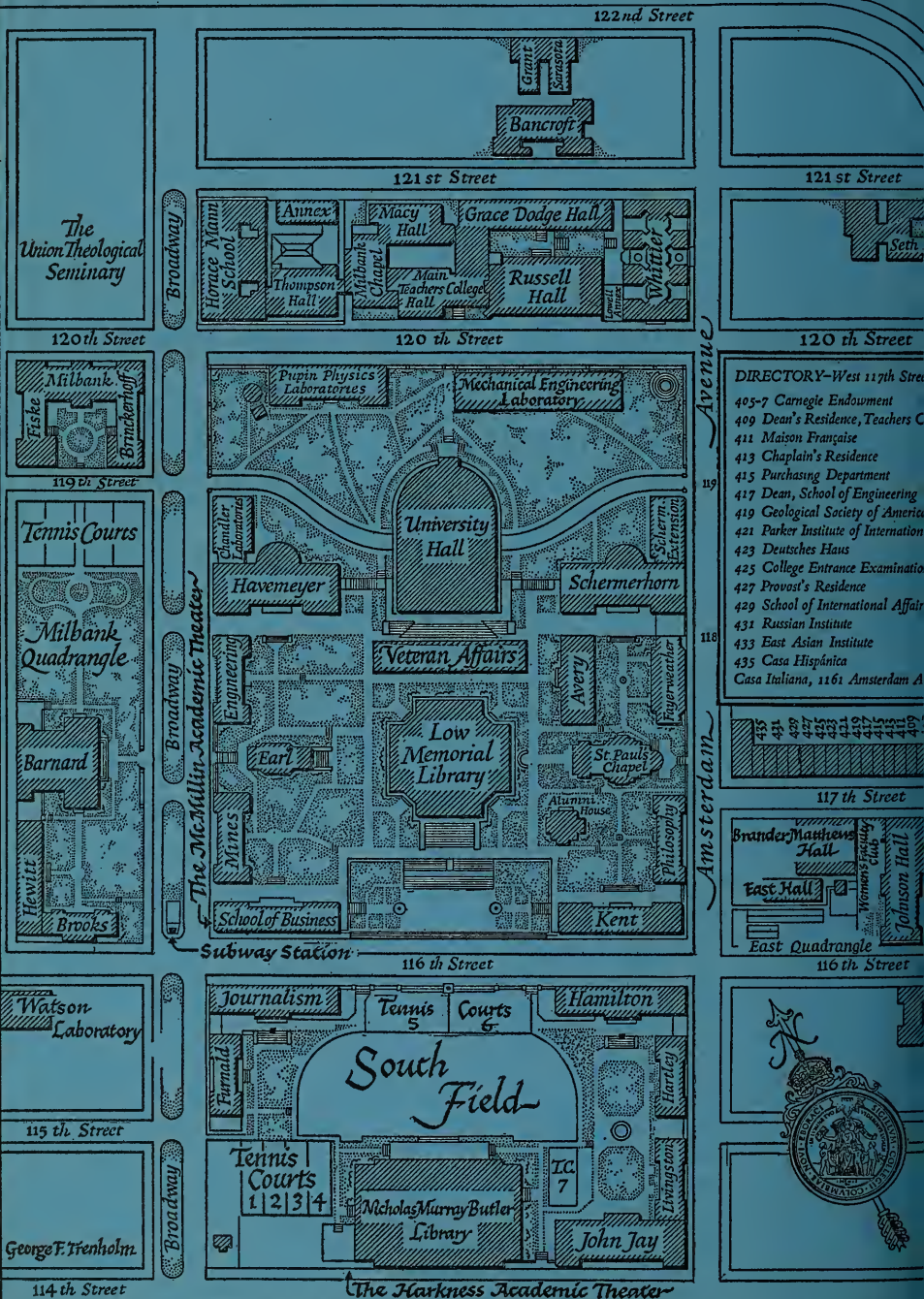
15. Housing

17. Francis Delafield Hospital (under construction),
N. Y. City Dept. of Hospitals

18. Edward S. Harkness Memorial Hall

MORNINGSIDE HEIGHTS

Plan of Buildings and Grounds



(Desk)

COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fiftieth Series, No. 34

September 16, 1950

COPY 2
COLUMBIA UNIVERSITY

HEALTH SCIENCES
ANNOUNCEMENT OF THE
LIBRARY

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE
FACULTY OF MEDICINE

1950-1951



COLUMBIA-PRESBYTERIAN MEDICAL CENTER

630 WEST 168TH STREET · NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fiftieth Series, No. 34

September 16, 1950

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from January for forty-five consecutive issues. Re-entered as second-class matter July 11, 1950, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Office of University Admissions.

C. U. P. 8,000—1950.

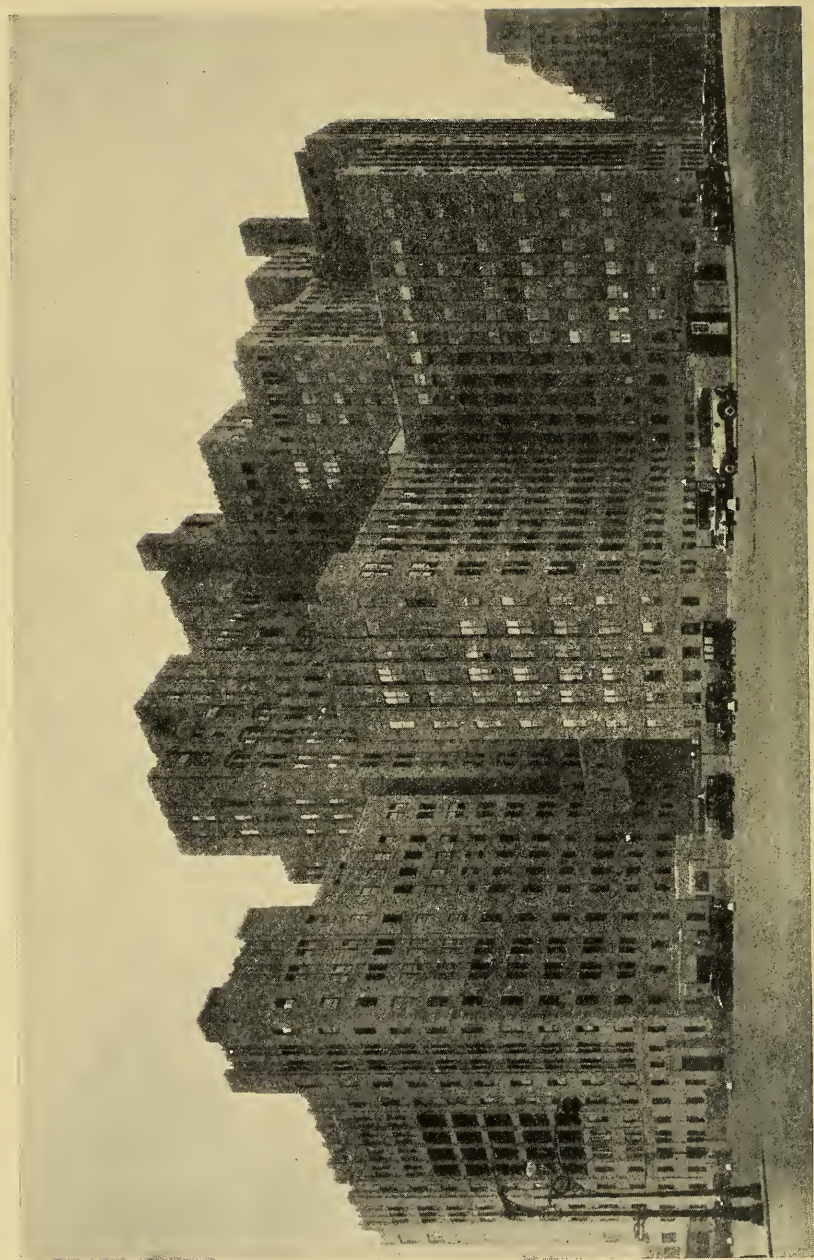
COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3-2500.

ANNOUNCEMENTS

The Announcements of each College or School and of the Summer Session may be obtained without charge from the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE
FACULTY OF MEDICINE



1950-1951

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N. Y.

FORM OF BEQUEST

To the Trustees of Columbia University in the City of New York I give and bequeath the sum of \$., to be used by said Trustees for the uses and purposes of said Corporation.

CONTENTS

CONDENSED ACADEMIC CALENDAR	4
FACULTY OF MEDICINE	5
THE SCHOOL OF DENTAL AND ORAL SURGERY	7
General Statement	7
Requirements for Admission, Promotion, and Graduation	8
PLAN OF INSTRUCTION	17
COURSES OF INSTRUCTION	19
TEXTBOOKS	24
STUDENT ORGANIZATIONS	26
FACILITIES	27
FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES	29
ALUMNI ASSOCIATION	30
OFFICERS OF INSTRUCTION	31
REGISTER OF STUDENTS	39
INDEX	42

CONDENSED ACADEMIC CALENDAR

1950

- September 7 Thursday, to September 9, Saturday. Registration, including payment of fees.
- September 11 Monday. Classes begin.
- November 7 Tuesday. Election Day. Holiday.
- November 23 Thursday. Thanksgiving Day. Holiday.
- November 25 Saturday. End of first trimester.
- November 27 Monday. Beginning of second trimester.
- December 17 Sunday, to

1951

- January 1 Monday, inclusive. Christmas Holidays.
- February 12 Monday. Lincoln's Birthday. Not a University Holiday.
- February 16 Friday. Dean's Day. Not a University Holiday.
- February 22 Thursday. Washington's Birthday. Holiday.
- February 24 Saturday. End of second trimester.
- February 26 Monday. Beginning of third trimester.
- March 1 Thursday. Last day for filing application for degrees.
- March 18 Sunday, to March 25, Sunday, inclusive. Easter Holidays.
- May 19 Saturday. Last day of classes.
- May 21 Monday, to June 2, Saturday. Final examinations.
- May 30 Wednesday. Memorial Day. Holiday.
- June 7 Thursday. Conferring of degrees.

*June 8 Friday. Presentation of diplomas and
award of achievement. Board of
Examiners, 1951.*

Sept 13 Thurs. to Sept 15 Saturday. Final Examinations.

Sept 17 Monday. Classes begin.

FACULTY OF MEDICINE

OFFICERS OF THE FACULTY

DWIGHT DAVID EISENHOWER, LL.D. *President of the University*
 WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. *Vice President in Charge of Medical Affairs; Dean of the Faculty of Medicine*
 MAURICE J. HICKEY, M.D., D.M.D. *Associate Dean (Dental and Oral Surgery)*
 AURA E. SEVERINGHAUS, B.S., A.M., Ph.D. *Associate Dean*
 HAROLD W. BROWN, A.B., M.S., Sc.D., M.D., D.P.H. *Secretary (MEDICINE)*
 ELEANOR LEE *Associate Dean (Public Health)*
 MARGARET ELIZABETH CONRAD, A.B., Sc.D. *ACTING Associate Dean (Nursing)*
 JOHN BACCHUS TRUSLOW, A.B., M.D. *Assistant Dean (Graduate Studies)*
 VACANT

THE FACULTY

J. BURNS AMEERSON	NOLAN D. C. LEWIS
DANA W. ATCHLEY	ROBERT F. LOEB
FRANK B. BERRY	IRVILLE H. MACKINNON
JAMES BORDLEY	EWING C. McBEATH
HAROLD W. BROWN	DONOVAN J. McCUNE
CHARLES L. BUXTON	RUSTIN McINTOSH
GEORGE F. CAHILL	MONROE A. McIVER
A. BENSON CANNON <i>dec'd 11/27/50</i>	H. HOUSTON MERRITT
E. GURNEY CLARK	EDGAR G. MILLER, JR.
HANS T. CLARKE	JOHN L. NICKERSON
MARGARET E. CONRAD	WILLIAM BARCLAY PARSONS
WILFRED M. COPENHAVER	GEORGE A. PERERA
D. ANTHONY D'ESOP	J. LAWRENCE POOL
SAMUEL R. DETWILER	WILLARD C. RAPPLEYE
JOHN H. DUNNINGTON	DICKINSON W. RICHARDS, JR.
EARL T. ENGLE	HENRY ALSOP RILEY
JOHN W. FERTIG	WALTER S. ROOT
THOMAS P. FLEMING	HARRY M. ROSE
JOSEPH E. FLYNN	BEATRICE C. SEEGAL
EDMUND P. FOWLER, JR.	AURA E. SEVERINGHAUS
ANGUS M. FRANTZ	LAWRENCE W. SLOAN
VIRGINIA K. FRANTZ	ALAN DE FOREST SMITH
ALFRED GILMAN	GILBERT P. SMITH
ROSS GOLDEN	HARRY P. SMITH
LEONARD J. GOLDWATER	PHILIP E. SMITH
MAGNUS I. GREGERSEN	ISIDORE SNAPPER
ALEXANDER B. GUTMAN	LEWIS R. STOWE
CUSHMAN D. HAAGENSEN	HOWARD C. TAYLOR
FRANKLIN M. HANGER, JR.	JOHN B. TRUSLOW
MICHAEL HEIDELBERGER	KENNETH B. TURNER
MAURICE J. HICKEY	HARRY B. VAN DYKE
HOUGHTON HOLLIDAY	THEODORE J. C. VON STORCH
GEORGE H. HUMPHREYS, II	JEROME P. WEBSTER
YALE KNEELAND, JR.	ABNER WOLF

COMMITTEE ON DENTAL EDUCATION

MAURICE J. HICKEY, *Chairman*¹SAMUEL BRENDACH *Sec'y 11/25/50*

HANS T. CLARKE

SAMUEL R. DETWILER

MAGNUS I. GREGERSEN

HOUGHTON HOLLIDAY

BARNET M. LEVY

EWING C. McBEATH

CARL R. OMAN

GILBERT P. SMITH

HARRY P. SMITH

LEWIS R. STOWE

ARTHUR C. TOTTEN

HARRY B. VAN DYKE

WILLARD C. RAPPEYE, *ex officio*AURA E. SEVERINGHAUS, *ex officio*JOHN B. TRUSLOW, *ex officio*

ADMINISTRATIVE STAFF

AT SCHOOL OF DENTAL AND ORAL SURGERY

LUCIA KLEMOVICH *Assistant to the Registrar*THOMAS P. FLEMING, M.S. *Librarian*¹ On leave until March 15, 1951.

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled *A Dental School on University Lines*. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of forty thousand square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dentistry, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application.—It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the following courses required by the New York State Board of Regents:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of home work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance (see page 11).

COMBINED COURSES

Combined Courses with Columbia College.—Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College.—Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined Courses in Dentistry and Medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one summer session.

COLUMBIA UNIVERSITY

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed for dental students:

(a) University Fee

For all students for one academic year, or for any part thereof, payable in two installments \$ 20.00

(b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments 750.00

For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

(c) Fee for Application

For a degree 20.00
For a certificate 10.00

(d) Privileges

1. Late registration or late application for a degree or for deficiency or special examinations 3.00
2. Deficiency or special examinations 3.00
3. Renewal of application for any degree 1.00

(e) Student Activities (payable annually)

For all students, *Dental Abstracts Journal* 2.00

(f) Student Health Service Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.

For all students, per academic year \$ 20.00

(g) Case Rental

For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments 5.00

(h) Rebates

1. The University fee and the fee for application for any degree shall not be subject to rebate.
2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

(i) Deposit 25.00

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fees for Repeated Courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1949-1950 and can be accepted as applicable in general for the year 1950-1951 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and University fees	\$ 770	\$ 770
Miscellaneous fees	55	30
Room	330	190
Board	385	350
Books	150	115
Instruments (see below)	325	325
Laundry	75	35
	<hr/> \$2,090	<hr/> \$1,815

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate dean or director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of

any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement.

II. Recommended for readmission to the same class.

III. Recommended neither for advancement nor for readmission to the same class:

a) Because of failure.

b) Those who fall under paragraph 2 of rules for advancement of students.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of Dental Hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Wherever possible, a personal interview is required before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	<i>Semester Hours</i>
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits for the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Dean, School of Dental and Oral Surgery, 630 West 168 Street, New York 32, N. Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1950-1951 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these specially arranged courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes not less than thirty credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in general restorative dentistry; oral diagnosis and roentgenology; oral surgery; pedodontics; and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Committee on Postgraduate Admissions, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Office of University Admissions, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1950-1951

<i>Subject*</i>	<i>Trimester Credits</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FIRST YEAR				
Anatomy				
Embryology 152 <i>F</i>	2	19	..	19
Gross 151 <i>FS</i>	12	50	223	273 ✓
Microscopic 150 <i>FS</i>	6	42	126	168 ✓
Neuro 153 <i>T</i>	4	30	36	66 ✓
Oral 101 <i>ST</i>	5	19	117 ✓	136
Biochemistry 150 <i>ST</i>	8	39	117	156
Histology, Oral 115 <i>ST</i>	5	26	52	78
Physiology 150 <i>FS</i>	11	56	156	212
Theory and Practice				
Dental History 287 <i>T</i>	1	10	..	10
	54			1,118

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

<i>Subject*</i>	<i>Trimester Credits</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
SECOND YEAR				
Bacteriology 151 <i>F</i> and 152 <i>F</i>	7	43	99	142
Crown and Bridge 105 <i>ST</i>	6	10	165	175
Dental Materials 126 <i>FS</i>	3	10	56	66
Operative Dentistry 131 <i>FST</i>	9	20	201	221
Oral Hygiene 122 <i>T</i>	2	20	..	20
Pathology 150 <i>FS</i>	10	54	140	194
Periodontology 151 <i>T</i>	1	..	33	33
Pharmacology 150 <i>ST</i>	6	54	33	87
Prosthetic Dentistry 157 <i>FST</i>	9	20	206	226
Psychiatry 150 <i>S</i>	1	11	..	11
Theory and Practice				
Dental History 283 <i>F</i>	1	10	..	10
Therapeutics 286 <i>T</i>	1	10	..	10
	56			1,195
THIRD YEAR				
Anatomy, Applied 252 <i>S</i>	1	10	..	10
Crown and Bridge				
Technique 205 <i>F</i>	3	..	80	80
Clinic 206 <i>ST</i>	5	10	113	123
Applied Occ. Dynamics 212 <i>T</i>	1	..	30	30
Diagnosis 212 <i>FST</i>	4	30	30	60
Operative Dentistry 233 <i>FST</i>	10	10	258	268
Orthodontics 241 <i>F</i>	3	20	60	80
Pathology, Oral 246 <i>FS</i>	4	20	60	80
Periodontology 251 <i>S</i>	1	..	30	30
Practice of Medicine 278 <i>ST</i>	5	40	22	62
Prosthetic Dentistry 260 <i>FST</i> and 261 <i>FST</i>	8	20	165	185
Radiology 267 <i>F</i>	1	10	14	24
Surgery, Oral 270 <i>F</i>	2	10	30	40
	48			1,072
FOURTH YEAR				
Crown and Bridge 210 <i>FST</i> and 211 <i>FST</i>	6	10	160	170
Diagnosis 213 <i>F</i>	1	..	30	30
Diagnosis Seminar 214 <i>S</i>	3	..	30	30
Diagnosis 215 <i>T</i> (continuation of 214)	1	10	..	10
Orthodontics 243 <i>FST</i>	1	..	30	30
Operative Dentistry 234 <i>FST</i>	12	20	308	328
Pedodontics 202 <i>FST</i>	4	10	88	98
Periodontology 252 <i>FS</i> and 253 <i>FS</i>	3	20	30	50
Prosthetic Dentistry 263 <i>FST</i> and 264 <i>FST</i>	6	10	159	169
Public Health 222 <i>S</i>	2	20	..	20
Surgery, Oral 272 <i>FST</i>	6	40	60	100
Surgery Seminar 274 <i>T</i> . . . . .	..	..	..	10
Surgical Prosthesis 265 <i>S</i>	1	..	30	30
Theory and Practice				
Ethics 281 <i>F</i>	1	10	..	10
Jurisprudence 282 <i>T</i> . . . . .	..	10	..	10
Comprehensive 285 <i>T</i>				
	47			1,095

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For lecture courses this represents one hour a week in class and two hours of homework. For laboratory or clinical work it represents approximately three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow.

The outline on pages 17 and 18 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 5 credits.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 5 credits.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 6 credits.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 12 credits.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 3 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of *Diagnosis 212*.

Diagnosis 214—Diagnosis seminar. Senior year. 3 credits.

Discussion and differential diagnosis of selected cases.

Diagnosis 215—Diagnosis seminar. Senior year. 1 credit.

Continuation of *Diagnosis 214*.

MEDICINE

Medicine 278—General survey of medicine. Junior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 9 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 10 credits.

Lectures on the application of operative fundamentals to clinical practice. The technique of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 12 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root-canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings related to the etiology and prevention of dental caries and diseases of the periodontium.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 3 credits.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time devoted to the designing and constructing of removable appliances used as space maintainers, habit breakers, and to correct tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Junior year. No credit.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year. 1 credit.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 10 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, management of child dental patients, and the application of present knowledge of dental development and preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY

Pharmacology 150—Pharmacology. Sophomore year. 6 credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 11 credits.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technique. Sophomore year. 6 credits.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year. 9 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year. 3 credits.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year. 5 credits.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year. 5 credits.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth and instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes, or on habit disturbances, with clinical demonstrations. Principles of mental hygiene and environment adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year. 2 credits.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Senior year. Elective. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to Seniors who are eligible for electives.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year. 1 credit.

Lectures, readings, and discussions on topics relative to oral radiology.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, seminars, demonstrations, and clinical practice on local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 6 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. No credit. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct, and practice management.

Theory and Practice 282—Dental jurisprudence. Senior year. No credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Sophomore year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 285—Comprehensive case. Senior year. No credit.

Each student is assigned a case for which he performs all the dental services: taking of x-ray negatives, treatment-planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

Formerly *Pharmacology 250*.

Theory and Practice 287—Dental History. Freshman year. 1 credit.

Lecture and conference course in dental history.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy: One of the following three: Stedman, Gould, or American, *Medical Dictionary*; Cunningham, *Manual of Practical Anatomy*, Vols. II and III; mimeographed *Dissecting Directions*; one of the following three: Grant, *Atlas of Anatomy*; Truex and Kellner, *Detailed Atlas of the Head and Neck*; or Spalteholz, *Hand Atlas of Human Anatomy*.

Applied anatomy: Shapiro, *Applied Anatomy of the Head and Neck* (2d ed.).

Embryology: One of the following three: Arey, *Developmental Anatomy*; Hamilton, *Human Embryology*; or Patten, *Human Embryology*.

Microscopic anatomy: Bailey, *Textbook of Histology* (12th ed.); mimeographed laboratory manual.

Neuroanatomy: Strong and Elwyn, *Human Neuroanatomy*; mimeographed laboratory manual.

Oral anatomy: Diamond, *Dental Anatomy*.

Oral histology and embryology: Orban, *Oral Histology and Embryology*.

BACTERIOLOGY: Jordan and Burrows, *Textbook of Bacteriology* (15th ed.); or Dubos, *Bacterial and Mycotic Infections of Man*; and Rivers, *Viral and Rickettsial Infections of Man*; and Laboratory Manual in Medical Bacteriology and Immunology.

BIOCHEMISTRY: Harrow, *Textbook of Biochemistry* (5th ed.); Karshan, *Laboratory Manual of Biochemistry for Dental Students*.

DENTAL ETHICS AND PRACTICE MANAGEMENT: McGehee and Walker, *Dental Practice Management*.

DENTAL THERAPEUTICS: Council on Therapeutics, American Dental Association, *Accepted Dental Remedies*.

DIAGNOSIS: Ziskin et al., *Differential Diagnosis* (1st ed.); Ziskin, *Pulp Symptomatology* (1943 ed.).

MEDICINE: Yater, *Fundamentals of Internal Medicine* (3rd rev. ed.); Grossman, *Root Canal Therapy*.

OPERATIVE DENTISTRY: Black, *Operative Dentistry*, Vols. II and III; *Operative Dentistry Syllabus*.

ORAL PATHOLOGY: Cahn, *Pathology of the Oral Cavity*.

ORTHODONTICS: Salzman, *Principles of Orthodontics*.

PATHOLOGY: One of the following four: Boyd, *Textbook of Pathology*; Karsner, *Textbook of Pathology*; Moore, *Textbook of Pathology*; or *Anderson's Pathology*.

PEDODONTICS: McBride, *Juvenile Dentistry* (4th ed. or later).

PERIODONTOLOGY: Goldman, *Periodontia*.

PHARMACOLOGY: One of the following four: Gaddum, *Pharmacology*; Goodman and Gilman, *Pharmacological Basis of Therapeutics* (1941); Sollman, *Pharmacology*; or Oldham, Kelsey, and Geiling, *Essentials of Pharmacology*.

PHYSIOLOGY: One of the following four: Wiggins, *Physiology in Health and Disease* (5th ed.); Fulton, *Textbook of Physiology* (16th ed.); Starling, *Human Physiology* (10th ed.); or Best and Taylor, *Physiological Basis of Medical Practice* (1950); and *Physiology Laboratory Manual*.

PROSTHETIC DENTISTRY: Skinner, *Science of Dental Materials*; Swenson, *Complete Dentures*; Tylman, *Crown and Bridge Prothesis*; United States Government Printing Office, *Physical Properties of Dental Materials*; Young et al., *Syllabus on Complete Dentures*.

PSYCHIATRY: Noyes, *Modern Clinical Psychiatry*; Cobb, *Foundations of Neuro-psychiatry* (3d rev. ed., 1944).

RADIOLOGY: McCall and Wald, *Clinical Dental Roentgenology* (2d ed.).

SURGERY: Berger, *Principles and Technique of Oral Surgery*; Berger, *Principles and Technique of the Removal of Teeth*; Parker, *Synopsis of Traumatic Injuries of the Face and Jaw*; Homan, *Textbook of Surgery*.

SURGICAL PROSTHESIS: O. E. Beder, *Surgical and Maxillofacial Prosthesis* (1st ed.).

STUDENT ORGANIZATIONS

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 percent of the members of the graduating Senior class, based on scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

"DENTAL ABSTRACTS"

Dental Abstracts is an official publication of the School of Dental and Oral Surgery of the Faculty of Medicine, written and published by the Dental Abstracts Society, an undergraduate organization. This periodical is issued four times yearly and is received by libraries, hospitals, dental, medical, and public health schools, organizations, and individuals throughout the world.

With the active guidance and cooperation of the officers of instruction of the School, undergraduate students read and abstract the current dental and related literature for publication in this journal. Undergraduate participation in this program is urged not only to assure continuation of this worthy project but, more important, to acquaint the student intimately with the recent advances in dental science and to gain sound principles toward the proper evaluation of the current literature.

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (a) the use of names in which the name of the University is embodied or suggested, and (b) the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

FACILITIES

LIBRARY

The Library occupies part of the three lower floors in the College building. It provides current literature (both books and journals) for faculty and students and it aids in research through its own collections of current and historical works and through its unique bibliographical service.

The Library contains approximately one hundred fifty thousand volumes of books and journals, some five thousand pamphlets and about two thousand lantern slides on the history of medicine. More than 1700 periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The Library is normally open:

Monday-Friday	8:30 A.M.—10:00 P.M.
Saturday	9:00 A.M.— 6:00 P.M.
Sunday	12 NOON— 6:00 P.M.

University Libraries.—The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium.—The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium, baths, and private lockers.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service in Room 2-220 of the Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated

with him in his work. The Chaplain of the University, the Rev. JAMES A. PIKE, is assisted by three Religious Counselors: the Rev. SAMUEL J. WYLIE, Counselor to Protestant Students; the Rev. JOHN K. DALY, Counselor to Roman Catholic students; and Rabbi ISIDOR B. HOFFMAN, Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves with the schedules which are conveniently posted.

A number of student religious organizations are established to which the Chaplain and Counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the Counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

The Men's Residence Halls, located on the 116th Street Campus, house unmarried men students. For further information write direct to the Residence Halls Office, Room 125, Livingston Hall, Columbia University, New York 27, N. Y.

Johnson Hall, a residence hall for graduate women students, is available for unmarried women students on a room and board basis. For further information write to the Head of Johnson Hall, Columbia University, New York 27, N. Y.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York city. It offers comfortable accommodations at reasonable rates. For further information, write directly to International House, 500 Riverside Drive, New York 27, N. Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 a.m. to 5:30 p.m.; Saturdays, 8:45 a.m. to 1:30 p.m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, published by Columbia University Press. The book also contains an account of the University's history and traditions.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not more than three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 15.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in pedodontics has been established by the Class of 1929.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT AID

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

THE ASSOCIATION OF THE ALUMNI OF THE
SCHOOL OF DENTAL AND ORAL SURGERY

President, NATHANIEL DINER
President-elect, JOHN T. FLYNN
Vice President, HANNAH APPEL

Secretary, HERMAN MALTER
Treasurer, JOEL FRIEDMAN
Editor, LESTER SCHOEN

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

L. S. Patterson, Editor, Dental Clinician, 1916-1920

OFFICERS OF INSTRUCTION

- HAROLD ALEXANDER ABRAMSON *Assistant Clinical Professor of Physiology*
A.B., Columbia, 1920; M.D., 1923.
- THOMAS HUNTER ALLEN *Assistant Professor of Physiology*
A.B., Iowa, 1936; Ph.D., 1941.
- VIRGINIA APGAR *Professor of Anesthesia*
A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933.
- EDMUND APPLEBAUM *Associate Professor of Dental Anatomy*
D.D.S., New York College of Dentistry, 1922.
- HENRY ARTHUR BARTELS *Assistant Professor of Dental Pathology*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
- OSCAR E. BEDER *Assistant Professor of Dentistry*
B.S., Rutgers, 1936; D.D.S., Columbia, 1941.
- ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909; F.A.C.D., 1929.
- FRANK E. BEUBE *Associate Clinical Professor of Dentistry*
L.D.S., D.D.S., Toronto, 1930.
- ¹SAMUEL BIRENBACH *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917.
- HAROLD WILLIAM BROWN . *Acting Associate Dean (Public Health); Acting Director,*
School of Public Health; Professor of Parasitology
A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936.
- JACK BUDOWSKY *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1943.
- LESTER RICHARD CAHN *Associate Professor of Dental Pathology*
D.D.S., New York College of Dentistry, 1917.
- EDWARD A. CAIN, JR. *Assistant Professor of Dentistry*
B.S., Fordham, 1942; D.D.S., Columbia, 1945.
- LOUIS J. CIZEK *Assistant Professor of Physiology*
B.S., Fordham, 1937; M.D., Columbia, 1941.
- ²E. GURNEY CLARK *Professor of Epidemiology*
A.B., Vanderbilt, 1927; M.D., Vanderbilt, 1931; M.P.H., Johns Hopkins, 1936; D.P.H., Johns Hopkins, 1944.
- HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1914.
- LOUIS ALEXANDER COHN *Assistant Clinical Professor of Dentistry*
D.D.S., Pennsylvania, 1926.
- WILFRED MONROE COPENHAVER *Associate Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- JOSEPH ANTHONY CUTTITA *Assistant Professor of Dentistry*
A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939.

¹ On leave until March 15, 1951.

² On leave until October 6, 1950.

- ✓ SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (*hon.*), 1931.
- ✓ ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917.
- ✓ EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- ✓ JOHN WILLIAM FERTIG *Professor of Biostatistics*
A.B., Ursinus, 1931; Ph.D., Minnesota, 1935.
- MORRIS FIERSTEIN *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1921.
- ✓ JOSEPH E. FLYNN *Associate Professor of Pathology*
A.B., Columbia (Iowa), 1933; M.D., Iowa, 1938.
- HARRY ALLEN GALTON *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1932.
- ✓ ALFRED GILMAN *Professor of Pharmacology*
B.S., Yale, 1928; Ph.D., 1931.
- ✓ LEONARD J. GOLDWATER *Professor of Industrial Hygiene*
A.B., Michigan, 1924; M.D., New York University, 1928; Med.Sc.D., Columbia, 1937; M.S.P.H., 1941.
- ✓ JOHN E. GORRELL *Associate Professor of Hospital Administration*
B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930.
- ✓ WILSON C. GRANT *Assistant Professor of Physiology*
A.B., Wesleyan, 1937; A.M., 1938; Ph.D., Maryland, 1942.
- ✓ MAGNUS INGSTRUP GREGERSEN *Dalton Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- ✓ JOHN M. HENDERSON *Professor of Sanitary Science*
C.E., Cornell, 1927.
- ROBERT E. HERLANDS *Assistant Professor of Dentistry*
A.B., Columbia, 1941; D.D.S., 1944.
- MAURICE J. HICKEY *Associate Dean (Dental and Oral Surgery);*
Professor of Oral Surgery
D.M.D., Harvard, 1932; M.D., Columbia, 1937.
- GEORGE W. HINDELS *Assistant Clinical Professor of Dentistry*
M.D., Vienna, 1938; D.D.S., Columbia, 1943.
- HOUGHTON HOLLIDAY *Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917; D.D.S. (*hon.*), Montreal, 1945.
- IRVIN LELAND HUNT, JR. *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1929.
- ✓ CLAUD WASHINGTON JUNGBLUT *Professor of Bacteriology*
M.D., Berne, 1921.
- ¹MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.

¹ On leave September 1, 1950, to January 31, 1951.

- GEORGE B. KOELLE *Assistant Professor of Pharmacology*
B.S., Philadelphia College of Pharmacy, 1939; Ph.D., Pennsylvania, 1946; M.D., Johns Hopkins, 1950.
- DANIEL M. KOLLEN *Assistant Clinical Professor of Dentistry*
D.D.S., New York University, 1924.
- BARNET M. LEVY *Professor of Dentistry*
A.B., Pennsylvania, 1938; D.D.S., 1942; M.S., Virginia, 1944.
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914.
- GEORGE FRANK LINDIG *Associate Clinical Professor of Dentistry*
D.D.S., Minnesota, 1924.
- EWING CLEVELAND MCBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921.
- SAUL MISHELOFF *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1922.
- WILLIAM LEO NASTUK *Assistant Professor of Physiology*
B.S., Rutgers, 1939; Ph.D., 1945.
- ALVIN S. NATHAN *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1926; B.S., New York University, 1935; A.M., 1938.
- JOHN LESTER NICKERSON *Professor of Physiology*
A.B., Dalhousie, 1925; A.M., 1928; Ph.D., Princeton, 1935.
- CARL REUBEN OMAN *Professor of Dentistry*
D.D.S., Minnesota, 1914.
- DOUGLAS BURNETT PARKER *Clinical Professor of Oral Surgery*
M.D., Long Island College of Medicine, 1912; D.D.S., Pennsylvania, 1914.
- MAX A. PLEASURE *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1928; M.S.P.H., Columbia, 1941.
- WILLARD COLE RAPPLEYE *Dean, Faculty of Medicine; Vice President in Charge of Medical Affairs; Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (*hon.*), Yale, 1922; Sc.D., Trinity (Conn.), 1939; Rutgers, 1949.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT *Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- SOLOMON NATHAN ROSENSTEIN *Associate Professor of Dentistry*
B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930.
- WILLIAM J. SAVOY *Assistant Clinical Professor of Dentistry*
B.S., Manhattan, 1931; D.D.S., Columbia, 1935.
- SAUL SCHLUGER *Assistant Clinical Professor of Dentistry*
D.D.S., Louisville, 1931.
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922.
- BEATRICE C. SEEGAL *Associate Professor of Bacteriology*
A.B., California, 1918; A.M., 1921; M.D., Johns Hopkins, 1924.

HARRY H. SHAPIRO *Assistant Professor of Anatomy*
D.D.M., Tufts, 1918.

WILLIAM H. SILVERSTEIN *Assistant Clinical Professor of Dentistry*
D.D.S., Maryland, 1937.

✓ GEORGE K. SMELSER *Associate Professor of Anatomy*
A.B., Earlham, 1929; Ph.D., Chicago, 1932.

GILBERT PERCIVAL SMITH *Professor of Dentistry*
D.D.S., Minnesota, 1927.

✓ HARRY PRATT SMITH *Delafield Professor of Pathology*
A.B., California, 1916; M.S., 1918; M.D., 1921.

✓ PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912; Sc.D., Princeton, 1948.

LEO STERN, SR. *Clinical Professor of Dentistry*
D.D.S., New York College of Dentistry, 1912.

FRANCES A. STOLL *Associate Professor of Dental Hygiene*
R.D.H., Columbia, 1934; B.S., 1944; A.M., 1945; Ed.D., 1949.

LEWIS RIDDELL STOWE *Professor of Dentistry*
D.D.S., Minnesota, 1916.

DAVID TANCHESTER *Clinical Professor of Dentistry*
D.D.S., New York University, 1921.

WILLIAM A. THEMANN *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1927.

ARTHUR CRANSTON TOTTEN *Professor of Dentistry*
D.D.S., Pennsylvania, 1926.

✓ JAMES L. TROUPIN *Associate Professor of Public Health Practice*
M.D., Tufts, 1932; M.S., Columbia, 1942.

✓ HARRY BENJAMIN VAN DYKE *Hosack Professor of Pharmacology*
B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923.

✓ WILLIAM WELCH WALCOTT *Assistant Professor of Physiology*
A.B., Yale, 1933; Ph.D., Columbia, 1944.

✓ SHIH-CHUN WANG *Associate Professor of Physiology*
B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940.

EVELYN WITOL *Assistant Clinical Professor of Dentistry*
D.M.D., Tufts, 1945.

EDWARD VICTOR ZEGARELLI *Associate Professor of Dentistry*
A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942.

✓ ~~to leave in 1951~~
HOWARD ARDEN, B.S., D.D.S. *Assistant in Dentistry*

HERBERT DELBERT AYERS, JR., A.B., D.D.S. *Instructor in Dentistry*

¹BERT BALLIN, A.B., D.D.S. *Assistant in Dentistry*

¹ On leave 1950-1951.

Robert Nelson - A.B., Ypsala 1943 - Instructor
M.D., Jefferson 1948 Physiology
Frank L. Carpenter B.S. Ohio St. 1948 asst in
Ph. in Iowa

HERBERT BARTELSTONE, B.S., D.D.S.	Research Assistant in Dentistry
CARLISLE C. BASTIAN, D.D.S.	Lecturer in Dentistry
JAMES WINSTON BENFIELD, A.B., D.D.S.	Instructor in Dentistry
DOROTHY R. BLITSTEN, Ph.B.	Lecturer in Dental Hygiene
IGNAZIO F. BOSCARELLI, B.S., D.D.S.	Assistant in Dentistry
STANISLAW H. BRZUSTOWICZ, B.S., D.D.S.	Assistant in Dentistry
THEODORE M. BUNDRANT, D.D.S.	Instructor in Dentistry
NEAL W. CHILTON, B.S., D.D.S., M.P.H.	Lecturer in Dentistry
ADA R. CLARK, B.S., A.M., Ph.D.	Associate in Bacteriology
GEORGE B. CROZAT, D.D.S.	Lecturer in Dentistry
KOURKEN A. DAGLIAN, B.S., D.D.S.	Assistant in Dentistry
ROBERT CYRIL DEVINE, B.S., D.D.S.	Instructor in Dentistry
FRANK E. DIXON, B.A., B.S., D.D.S.	Instructor in Dentistry
JOHN J. DOLCE, B.S., D.D.S.	Instructor in Dentistry
ROBERT DRELICH, B.S., D.D.S., M.S.	Assistant in Anatomy
JOSEPH D. EBY, D.D.S.	Lecturer in Dentistry
JACOB FEINMAN, B.S., LL.B., D.D.S.	Instructor in Dentistry
JOSEPH E. FIASCONARO, B.S., D.D.S.	Instructor in Dentistry
BARBARA JANE FINK, R.D.H.	Assistant in Dental Hygiene
WALTER H. FORDHAM, JR., D.D.S.	Research Assistant in Dentistry
HERBERT PHILIP FRITZ, D.D.S.	Instructor in Dentistry
HERMAN GLADSTONE, B.S., M.D.	Instructor in Anatomy
BENJAMIN WILLIAM GLICK, B.S., A.M., M.D.	Instructor in Anatomy
ROBERT J. GORLIN, A.B., D.D.S.	Instructor in Dentistry
ROBERT GOTTSEGEN, A.B., D.D.S.	Instructor in Dentistry
EVELYN R. HANNON, R.D.H.	Instructor in Dental Hygiene
AXEL HANSON	Instructor in Dental Technique
LEONARD HIRSCHFELD, A.B., D.D.S.	Instructor in Dentistry
JOHN D. HOGAN, B.S., D.D.S.	Instructor in Dentistry
SIDNEY L. HOROWITZ, B.S., D.D.S.	Research Assistant in Dentistry
ELLEN N. HOSIOSKY, D.M.D., D.H., D.D.S.	Assistant in Dentistry
JAMES JAY, D.D.S.	Instructor in Dentistry

Norman R. Albert

W. Jared

A. B. Wesleyan Univ. Ass't. in
1940
Physiology
B. S. Taboran Univ
1940

JOSEPH E. JOHNSON, D.D.S.	Lecturer in Dentistry
SOLOMON L. KATZ, D.D.S.	Research Assistant in Dentistry
MORRIS KAVELLE, B.S., D.D.S.	Instructor in Dentistry
BERTRAM KLATSKIN, A.B., D.D.S.	Instructor in Dentistry
STANLEY L. LANE, B.S., M.D., D.D.S.	Instructor in Oral Surgery
WILLIAM H. LEAK, D.D.S.	Lecturer in Dental History; Curator of the Museum, Dental and Oral Surgery
EVOLD LINDER	Instructor in Dental Radiology Technique
JULIUS K. LITTMAN, M.D.	Instructor in Anatomy
FRANCIS J. LOUGHLIN, D.D.S.	Assistant in Dentistry
JOSEPH LUBAN, B.S., D.D.S.	Research Assistant in Dentistry
EDWARD S. LUBOJA, D.D.S.	Assistant in Dentistry
JOHN J. LUCCA, A.B., D.D.S.	Instructor in Dentistry
HARRIET G. McCORMICK, A.M., Ph.D.	Lecturer in Dental Hygiene
CLARE K. MADDEN, D.D.S.	Instructor in Dentistry
IRWIN D. MANDEL, B.S., D.D.S.	Instructor in Dentistry
ARTHUR H. MERRITT, D.D.S., M.S., Sc.D.	Lecturer in Dentistry
HENRY MILCH, A.B., M.D.	Instructor in Anatomy
WILLIAM MILLER, B.S., D.D.S.	Instructor in Dentistry
WILLIAM JOHN MILLER, A.B., D.D.S.	Instructor in Dentistry
MELVIN L. MORRIS, B.S., A.M., D.D.S.	Instructor in Dentistry
STANLEY F. NIEF, A.B., D.D.S.	Instructor in Dentistry
ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S.	Instructor in Dentistry
MIRIAM C. PRITCHARD, B.A., M.D., Ph.D.	Lecturer in Dental Hygiene
FRED ROTHENBERG, D.M.D., D.D.S.	Instructor in Dentistry
BOBB SCHAEFFER, A.B., A.M., Ph.D.	Lecturer in Dentistry
LOUIS LAZLO SCHWARTZ, B.S., D.D.S.	Lecturer in Dentistry
STEVEN SORIVANI, D.D.S.	Assistant in Dentistry
ALEXANDER SEELIG, B.S., D.D.S.	Instructor in Anatomy
BOAZ SHATTAN, A.B., D.D.S.	Instructor in Dentistry
HAROLD SHERMAN, B.S., D.D.S.	Instructor in Dentistry
HERBERT F. SILVERS, B.S., D.D.S.	Research Associate in Dentistry

94-
 Katherine B. O'Connell, M.D. Univ. Rochester 1943 - associate, pathology
 Jeanette Allen Behre - associate, histology

FRANKLIN A. SQUIRES, D.D.S.	Lecturer in Dentistry
GEORGE STEIN, M.D., D.M.D.	Research Associate in Dentistry
LEO STERN, JR., A.B., D.D.S.	Assistant in Dentistry
WALTER W. STEVENS, D.D.S.	Instructor in Dentistry
BENJAMIN TENENBAUM, B.S., D.D.S.	Research Associate in Dentistry
¹ JOSEPH J. C. THOMSON, D.D.S.	Assistant in Dentistry
FERDINAND A. TUOTI, D.M.D.	Instructor in Dentistry
ENNIO L. UCCELLANI, D.D.S.	Assistant in Dentistry
WILLIAM A. VERLIN, A.B., D.D.S.	Instructor in Dentistry
CLIFFORD L. WHITMAN, D.D.S.	Instructor in Dentistry
FREDERICK F. YONKMAN, A.B., Ph.D., M.D.	Lecturer in Pharmacology

CLINICAL ASSISTANTS

AARON L. ACKERMAN, D.D.S., M.P.H.	SEYMOUR LEVINE, D.D.S.
RALPH BECKER, B.S., D.D.S.	SIMON L. LIFTON, A.B., D.D.S.
DANIEL BLATMAN, D.D.S.	GEORGE MINERVINI, A.B., D.D.S.
SEBASTIAN A. BRUNO, D.M.D.	HOWARD B. MOSHMAN, D.D.S.
JESSE W. FIELD, D.D.S.	HENRY I. NAHOUM, A.B., D.D.S.
WESLEY HALPERT, B.S., D.D.S.	JOHN D. PIRO, D.D.S.
EDWARD HEIDT, D.D.S.	SYDNEY C. RAPPAPORT, D.D.S.
STANLEY S. HELLER, B.S., D.D.S.	NATHANIEL RATTNER, D.D.S.
HEDDA M. JOHN, D.D.S.	JULIAN SCHROFF, B.S., D.D.S.
FRANK KANTER, D.D.S.	WALTER G. SPENGEMAN, A.B., D.D.S.
JACOB I. KAPLAN, D.D.S.	EDWARD E. TELTSCH, A.B., D.D.S.
JOHN A. KORNIWICZ, D.D.S.	VINCENT D. VARALLO, B.S., D.D.S.
ROBERT G. KROLL, D.D.S.	SEYMOUR ZEFF, D.D.S.
AUSTIN H. KUTSCHER, A.B., D.D.S.	DAVID ZEISLER, B.S., D.D.S.
JOSEPH M. LEAVITT, D.D.S.	LENARD ZUCKERMAN, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

¹SAMUEL BIRENBACH, *Director*
Dr. Stowe, acting dir. until 3/15/51
 Attending Dental Surgeons

ADOLPH BERGER	GILBERT P. SMITH
HOUGHTON HOLLIDAY	LEWIS R. STOWE
CARL R. OMAN	ARTHUR C. TOTTEN

Associate Attending Dental Surgeons

LESTER R. CAHN	SOLOMON N. ROSENSTEIN
IRVIN L. HUNT, JR.	JOSEPH SCHROFF

¹ On leave until March 15, 1951.

- Chang Huang - M.D. China - Fellow in
 1940 Physiology
 m. Q. Ellison - B.S. C.C.N.Y.
 1942 - Visiting Fellow in

COLUMBIA UNIVERSITY

Assistant Attending Dental Surgeons

OSCAR E. BEDER
FRANK E. BEUBE
EDWARD A. CAIN
FRANK E. DIXON

ALVIN S. NATHAN
WILLIAM J. SAVOY
EDWARD V. ZEGARELLI
ALBIN R. SEIDEL, *Consultant*
Or. Surg. Station

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., *Assistant Attending Surgeon*
STANLEY L. LANE, B.S., M.D., D.D.S., *Assistant Attending Surgeon*

REGISTER OF STUDENTS

GRADUATES—CLASS OF JUNE, 1949

Berg, Marc Louis	New York City	Kurzius, George	Brooklyn, N. Y.
Cornell		A.B., New York University, 1941	
Breuer, Jack M.	New York City	Levin, Alex Elihu	New York City
A.B., Columbia, 1946		George Washington	
Docktor, John Paul	Ellsworth, Penna.	McAllister, Charles Bruce, Jr.	Elmhurst, N. Y.
B.S., Pittsburgh, 1941; M.D., George Washington, 1943		B.S., Fordham, 1944	
Freedman, Leonard Irving	Cedarhurst, N. Y.	Popper, Alfred	New York City
Wisconsin; New York University		M.D., Hamburg (Germany), 1934	
John, Hedda Maria	New York City	Prata, Raymond Louis	New York City
M.D., Prague (Czechoslovakia), 1925; D.D.S., 1933		B.S., Fordham, 1943	
Karlan, Frances Ross	New York City	Richmond, Julius Kenrick Macpeace	Georgetown, B. G.
B.S., Massachusetts Institute of Technology, 1942		Queens College (British Guiana); Columbia	
		Yanowitz, Bernard	Malone, N. Y.
		St. Lawrence	

SEPTEMBER 12, 1949 TO JUNE 8, 1950

FOURTH YEAR—CLASS OF JUNE, 1950

Andreozzi, Armando Edmond	Providence, R. I.	O'Loughlin, John Joseph	Howard Beach, N. Y.
Brown; Tufts		B.S., Fordham, 1946	
Barlow, Carl Morton	New York City	Pomerance, Alan Saul	Brooklyn, N. Y.
A.B., New York University, 1946		A.B., Brown, 1946	
Buslowe, Louis	New Haven, Conn.	Russo, Michael Archangel	Elizabeth, N. J.
A.B., Yale, 1938		B.S., Fordham, 1942	
Citron, Hyman Allan	New York City	Savad, Sol	Brooklyn, N. Y.
B.S., College of the City of New York, 1946		A.B., Brooklyn, 1939	
*Cook, Dana Ellsworth	Tarrytown, N. Y.	Schwartz, Stanley Irving	Poughkeepsie, N. Y.
Massachusetts Institute of Technology; Colgate		A.B., Bard, 1945	
Dowling, James Glenville	Fairfield, Conn.	Shapiro, Morton Louis	Brooklyn, N. Y.
Fordham; St. Lawrence		B.S., Willamette, 1947	
Fitz-Gibbon, Francis John	Holyoke, Mass.	Sherr, Leonard Allen	New York City
Providence College		College of the City of New York; Wisconsin	
Furgang, Murray	Pelham Manor, N. Y.	Tansky, Joseph	Brooklyn, N. Y.
College of the City of New York; St. John's (N. Y.); Fordham; New York University		Brooklyn	
Harnett, William Watkins	Englewood, N. J.	Tiernan, Vincent Clifford	New York City
Detroit; Hanover; Columbia		B.S., Manhattan, 1942	
Harris, Stanford	New York City	Vairo, George Gerard	New York City
College of the City of New York; Gonzaga University; University of Washington		B.S., Fordham, 1942	
Henrich, Edwin John	New Rochelle, N. Y.	Vogel, Howard Bernard	New York City
New York University; Buffalo; Cornell		College of the City of New York; Bates; Rochester	
Jacklyn, Herbert Barre	New York City		
College of the City of New York			
Jenkins, Cornelius Willis	New York City		
A.B., Lincoln, 1946			
Jussim, Julius	New York City		
B.S., College of the City of New York, 1938			
Lemrow, Maynard Wesley	Stratford, Conn.		
Westminster (Penna.); Bethany (W. Va.)			
Levine, Charles Lester	New York City		
College of the City of New York; Wisconsin; Ohio; Michigan			
Loeffler, George Henry	Jamaica, N. Y.		
Manhattan College			
McManus, Philip Patrick, Jr.	New York City		
A.B., Illinois, 1942			
Menken, George	Jackson Heights, N. Y.		
Cornell; B.S., Queens College, 1950			
Nebel, Arthur John, Jr.	Elizabeth, N. J.		
Centre College; Columbia			

THIRD YEAR—CLASS OF JUNE, 1951

Adams, Roger Pettingell	Westbrook, Maine
B.S., Bowdoin, 1946	
Cohen, Eugene A.	Brooklyn, N. Y.
Brooklyn	
Friedman, Edward U.	Hempstead, N. Y.
Mt. Union; New York University	
Goulian, Dicran, Jr.	Weehawken, N. J.
Columbia	
Greenier, Robert David	Orangeburg, N. Y.
B.S., Fordham, 1941	
Grether, Eugene R.	Virginia
A.B., Wisconsin, 1938; M.D., 1943	
Griffin, Edward Mitchell	Mt. Vernon, N. Y.
A.B., Dartmouth, 1947	
Houser, William Wyman	Yorkville, N. Y.
Colgate	
Kutner, Philip	Corona, N. Y.
B.S., College of the City of New York, 1944	

¹ Died October, 1949.

COLUMBIA UNIVERSITY

Machenberg, Stanley Ellis B.S., Connecticut, 1943	Stamford, Conn.	Kahan, Robert Ohio State; Columbia	Bronx, N. Y.
Mellow, Emil Anthony Scranton	Old Forge, Penna.	Kessler, Edward Peter Amherst	New York City
Moschella, Joseph A.B., Norwich, 1937	Staten Island, N. Y.	Kessler, Harry Samuel A.B., Pennsylvania, 1948	Bronx, N. Y.
Murakami, Kenneth Kiyoshi Hawaii	Honolulu, T. H.	Lai, Leonard J. L. B.S., Hawaii, 1946	Honolulu, Hawaii
Murphy, James Gerard Newark	Arlington, N. J.	Leefer, Norman Harold Rutgers	Roosevelt, N. J.
O'Connor, James Thomas A.B., St. Peter's (N. J.), 1947	Brooklyn, N. Y.	Mason, David Newton, Jr. Wesleyan	Scarsdale, N. Y.
O'Neill, Frank Deveraux B.S., New York University, 1940; A.M., 1942	Carle Place, N. Y.	Moglia, Alfred Bill Diploma of Classical Maturity, R. Convitto Nazionale, Parma, Italy, 1943; University of Parma Medical School; Hunter College	Morristown, N. J.
Platzter, Kenneth Martin A.B., Brooklyn, 1942	Brooklyn, N. Y.	Perry, Jerome Herbert A.B., New York University, 1948	Bronx, N. Y.
Rivera-Gonzalez, Victor M. Louisiana State; Tennessee	Aibonito, Puerto Rico	Samuels, Thomas Edward Fordham	Forest Hills, N. Y.
Seidenberg, Leonard Syracuse	Syracuse, N. Y.	Steiner, Robert Mark A.B., Columbia, 1948	New York City
Selinger, Jerome Rutgers	New Brunswick, N. J.	Sydow, Gunnar Eugene Texas; A.B., Colgate, 1948	Hackensack, N. J.
Silverstein, Harold A.B., Brooklyn, 1947	Brooklyn, N. Y.	VanBuren, Robert Harold St. Lawrence	New York City
Storella, John Alfonse B.S., Massachusetts State, 1947	Boston, Mass.	Zimmerman, Frank, Jr. Wittenberg; B.S., Trinity, 1948	Hartford, Conn.
Tolmach, Herbert A.B., New York University, 1947	New York City		
Tripodi, Joseph John B.S., St. Bonaventure, 1945; M.S., 1947	Tonawanda, N. Y.		
Worboys, Wilson Thomas A.B., Houghton, 1940	New York City		

SECOND YEAR—CLASS OF JUNE, 1952

Berger, Stephen R. Manhattan; B.S., Queens College, 1948	Forest Hills, N. Y.	Arlotti, Katherine M. B.S., St. Joseph's College for Women, 1949	Brooklyn, N. Y.
Carrucci, Carmine A. St. John's; B.S., Dickenson, 1948	Bronx, N. Y.	Axelrod, Saul New York University	New York City
DeFrancesco, Louis V. B.S., Fordham, 1948	Stamford, Conn.	Balick, Morton A.B., New York University, 1949	Forest Hills, N. Y.
DeLisi, Joseph Charles College of the City of New York; Fordham	Astoria, N. Y.	Baral, William G. City College of New York; Columbia	Bronx, N. Y.
Falevitch, Norman Calvin College of the City of New York; A.B., Hofstra, 1948	Brooklyn, N. Y.	Benes, Martin A.B., New York University, 1949	Brooklyn, N. Y.
Fasano, Carmine Mario Dartmouth; B.S., Harvard, 1946; Brooklyn College	Brooklyn, N. Y.	Camasas, Pandelis B.S., College of the City of New York, 1949	Long Island, N. Y.
Finder, Robert Byron A.B., Columbia, 1948	New York City	Cantor, Murray A. B.S., Hofstra, 1949	Albany, N. Y.
Firdman, Marvin Brooklyn College; A.B., New York University, 1948	Bronx, N. Y.	Closter, Charles E. Fordham	New Rochelle, N. Y.
Gilbert, Albert Kirven, Jr. Georgia School of Technology; Emory	Columbus, Ga.	Cornell, Harvey B. Canisius	Flushing, N. Y.
Glass, Daniel B.S., College of the City of New York, 1948	Brooklyn, N. Y.	Coulter, George M. Bard	Pawling, N. Y.
Gliedman, Monroe Marvin New York University; B.S., Massachusetts In- stitute of Technology, 1946	New York City	Daum, Lawrence College of the City of New York; A.B., Hunter, 1949	Brooklyn, N. Y.
Gliedman, Richard New York University; B.S., Massachusetts In- stitute of Technology, 1946	New York City	Feldman, Melvin M. Queens; Brooklyn; B.S., Fordham, 1948	Long Island, N. Y.
Guido, Matthew Gabriel Washington State; Columbia	West New York, N. J.	Feuer, Stanley B.S., Seton Hall, 1949	New York City
Helmer, Morvia Thomas Colgate; Utica College of Syracuse	Prospect, N. Y.	Fierstein, Allan L. Junior College of Connecticut; Columbia	Forest Hills, N. Y.
Kahan, Edward Ohio State; Columbia	Bronx, N. Y.	Franke, Irwin Scranton	Brooklyn, N. Y.
		Fusaris, Charles Connecticut	West Haven, Conn.
		Garbett, Harry Columbia	Jackson Heights, N. Y.
		Gordon, Ira Rutgers; Syracuse	Long Beach, N. Y.
		Grippio, John O. B.B., St. Bonaventure, 1949	North Walpole, N. H.
		Halpert, Marcella R. (Mrs.) Adelphi, Centenary; New York University	New York City

FIRST YEAR—CLASS OF JUNE, 1953

Hill, Charles S. Fordham	White Plains, N. Y.	Barrer, Harry George D.D.S., Columbia, 1942	Brooklyn, N. Y.
Horowitz, Jack New York University	Brooklyn, N. Y.	Briskin, Melvin Robert Kew Garden Hills, N. Y.	
Kahn, Arthur M. A.B., New York University, 1948	New York City	D.D.S., Maryland, 1941	
Kaufman, Jerome B.S., College of the City of New York, 1949	Brooklyn, N. Y.	Burford, Robert S., Jr. D.D.S., Medical College of Virginia, 1945	New York City
Keller, Bernard B.S., Fordham, 1949	Long Island, N. Y.	Cooper, John Robert D.D.S., Atlantic Southern, 1942	Newton, Miss.
Koslin, Allen J. A.B., Vanderbilt, 1947	Jamaica, N. Y.	Dragiff, David D.D.S., Columbia, 1943	New York City
Leeds, Franklin A. A.B., Adelphi, 1949	Forest Hills, N. Y.	Feinberg, Bernard D.D.S., Pennsylvania, 1936	Teaneck, N. J.
Lynch, Edward P. Manhattan	New York City	Fine, Herbert D.D.S., Maryland, 1943	Mt. Vernon, N. Y.
Lyons, George V. Siena	Troy, N. Y.	Forrest, George D.D.S., Columbia, 1944	Forest Hills, N. Y.
Mastrogeannes, Peter B.S., Fordham, 1948	New York City	Kruszewski, Edward Paul D.D.S., Temple, 1944	Orangeburg, N. Y.
Polays, Irving M. A.B., Duke, 1948	New Haven, Conn.	Ochoa, Ivan D.D.S., University of Antioquia (Colombia), 1946	Colombia, South America
Randi, Joseph A. Adelphi; Columbia	Long Island, N. Y.	Seiden, Felix D.D.S., University of Buffalo, 1942	Brooklyn, N. Y.
Ray, Charles E. A.B., Amherst, 1948	Amherst, Mass.	Sugiyama, Francis D.D.S., Maryland, 1946	Howi, Hawaii
Rosenthal, Lester A.B., Hofstra, 1948	Bronx, N. Y.	Wallshein, Melvin D.D.S., Pennsylvania, 1949	Brooklyn, N. Y.
Sadles, Stanley R. B.S., Columbia, 1949	Richmond Hill, N. Y.	Wenig, Martin D.D.S., Pennsylvania, 1944	Little Neck, N. Y.
Schwartz, Murray New York University	New York City	Wiener, Noel Jacob D.D.S., Temple, 1937	New York City
Sciascia, Oscar J. A.B., Adelphi, 1949	Brooklyn, N. Y.	Witek, John D.D.S., Northwestern, 1943	New York City
Small, Irwin A.B., Michigan, 1949	Tarrytown, N. Y.		
Suomi, John D. Columbia	Brooklyn, N. Y.		
Thibert, Gerard A. B.S., Providence, 1949	Fitchberg, Mass.		

POSTGRADUATE STUDENTS

CANDIDATES FOR THE CERTIFICATE OF TRAINING

Oral Surgery

Douglas, Bruce Lee D.D.S., New York University, 1948	Brooklyn, N. Y.
Eisenberg, Mervin D.D.S., Pennsylvania, 1946	Newark, N. J.
Hu, Yung Cheng D.D.S., West China Union (China), 1944	Chengtu, China
Lebrija, Jose Perez D.D.S., Mexico, 1948	Atzacapotzalco, Mexico
Mandel, Louis D.D.S., Columbia, 1946	Bronx, N. Y.

Orthodontics

Babinski, Lewis Andrew D.M.D., Tufts, 1940	St. Albans, N. Y.
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SPECIAL STUDENTS

Di Salvo, Nicholas Armand D.D.S., Columbia, 1945; B.S., College of the City of New York, 1942	New York City
Ellison, Solon A. B.S., Brooklyn, 1942; D.D.S., Columbia, 1946	New York City
Halpert, Wesley B.S., City College of New York, 1943; D.D.S., Columbia, 1946	New York City
Raebeck, William, Jr. D.D.S., Columbia, 1947	Belle Harbor, N. Y.

SUMMARY

Graduates—June, 1949	13
Fourth Year—Class of June, 1950	30
Third Year—Class of June, 1951	25
Second Year—Class of June, 1952	28
First Year—Class of June, 1953	40
Candidates for Certificates in Training	22
Special Postgraduate Students	4
<i>Total</i>	162

INDEX

- Academic calendar, condensed, 4
- Academic discipline, 12
- Acceptance fee, 11
- Administrative staff, 6
- Admission: to first year, 8; for foreign students, 10; to Graduate Faculty, 15
- Aid, student, 29
- Alumni Association, 30
- Anatomy courses, 19
- Application for admission, 8

- Bachelor of Science, 14
- Bacteriology courses, 19
- Barnard College, combined courses with, 9
- Basic sciences graduate courses, 15
- Biochemistry course, 20
- Bookstore, 28

- Calendar, academic, 4
- Certificate of training, 14
- Chapel, St. Paul's, 27
- Columbia College, combined courses with, 9
- Combined courses, 9
- Commencement, 4; *see also* Graduation
- Committee on Dental Education, 6
- Courses of instruction, 19
- Curriculum, 17

- D.D.S., *see* Doctor of Dental Surgery
- Dental Abstracts*, 26
- Dental Hygienists, courses for, 14
- Dental Materials course, 20
- Diagnosis courses, 20
- Discipline, academic, 12
- Doctor of Dental Surgery, 13
- Doctor of Philosophy, 15

- Employment, student, 29
- Equipment, dental, 11
- Expenses, estimated, 12

- Facilities, 27
- Faculty of Medicine, 5
- Fees, 10
- Fellowships, 15, 29
- First-year curriculum, 17
- Foreign students, admission of, 10
- Fourth-year curriculum, 18

- General Studies, combined courses with, 9
- Grading of students, 13
- Graduate Faculty, admission to, 15
- Graduation, 13
- Guest accommodations, 28
- Gymnasium, 27

- Health service, 27
- Historical statement of School, 7

- Instruments and supplies, 11
- International House, 28

- Jarvie Society, 26
- Johnson Hall, 28

- King's Crown Hotel, 28

- Library, 27
- License to practice dentistry in New York State, 16
- Loans, 30
- Lockers, 12

- Master of Public Health, 16
- Medical care, 28
- Medical Center Bookstore, 28
- Medicine course, 20
- Microscopes, 12

- New York State Board Examinations, 16

- Officers, 5, 31
- Omicron Kappa Upsilon, 26
- Operative Dentistry courses, 20
- Oral Hygiene course, 20
- Orthodontics courses, 21

- Pathology courses, 21
- Pedodontics course, 21
- Periodontology courses, 21
- Pharmacology course, 21
- Ph.D., *see* Doctor of Philosophy
- Physiology course, 22
- Plan of instruction, 17
- Postgraduate courses, 15
- Privileges, University, 27
- Prizes, 29
- Promotion, requirements for, 13
- Prosthetic Dentistry courses, 22
- Psychiatry course, 22
- Public Health courses, 23

- Radiology course, 23
- Rebates, 11
- Refresher courses, 14
- Register of students, 39
- Registration, 10
- Religious life on campus, 27
- Requirements: for admission, 8; for foreign students, 10; for graduation, 13; for promotion, 13
- Residence facilities, 28

- Scholarships, 29
- School of General Studies, combined courses with, 9
- School of Public Health, 15
- Second-year curriculum, 18
- Student aid, 29
- Student Health Service, 27
- Student organizations, 26; registration of, 26
- Surgery courses, 23

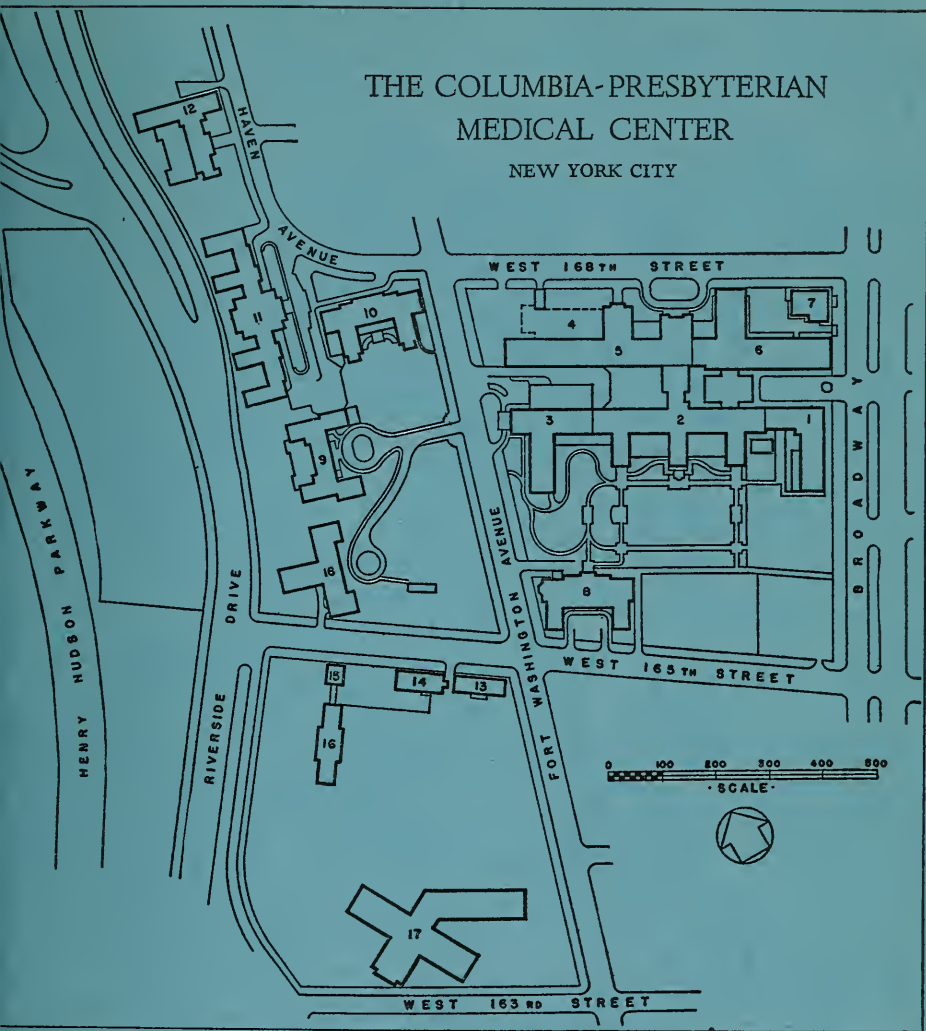
- Textbooks, 24
- Theory and Practice of Dentistry courses, 23
- Third-year curriculum, 18
- Tuition fees, 10

- University privileges, 27

- William Jarvie Society, 26
- Withdrawal, 13

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

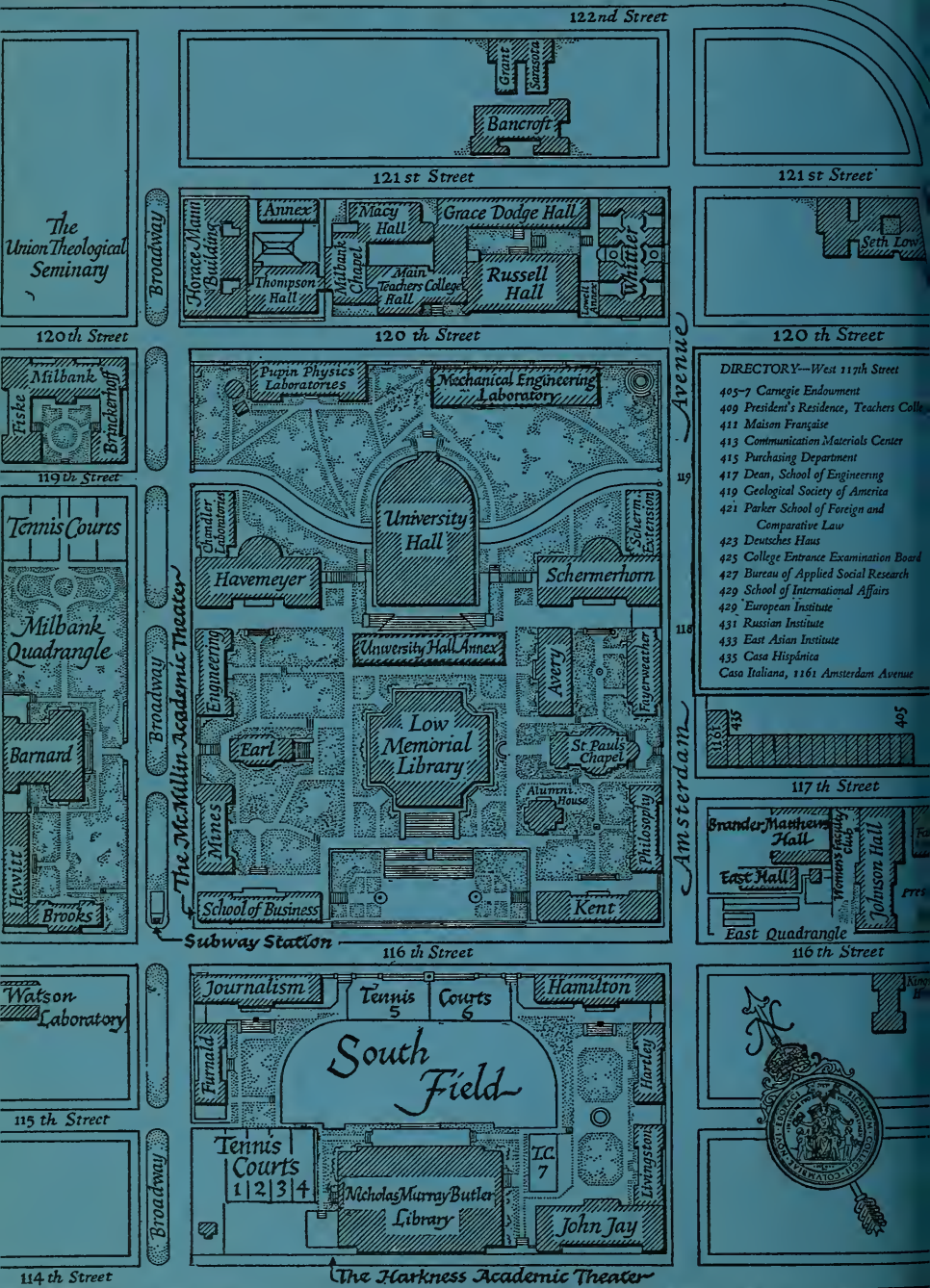
NEW YORK CITY



- | | |
|---|---|
| 1. Babies Hospital | 8. Institute of Ophthalmology |
| 2. Presbyterian Hospital
Sloane Hospital | 9. Maxwell Hall |
| 3. Harkness Pavilion | 10. Neurological Institute |
| 4. Power plant | 11. New York State Psychiatric Institute and
Hospital |
| 5. College of Physicians and Surgeons | 12. Bard Hall |
| 6. Vanderbilt Clinic
School of Dental and Oral Surgery | 13, 16. Storage |
| 7. Washington Heights Health and Teaching
Center, New York City Dept. of Health
School of Public Health | 14. Shops |
| | 15. Housing |
| | 17. Francis Delafield Hospital, New York City
Dept. of Hospitals |
| | 18. Edward S. Harkness Memorial Hall |

MORNINGSIDE HEIGHTS

Plan of Buildings and Grounds



Des.
C.O.F.

COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fifty-first Series, No. 30

August 11, 1951

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COLUMBIA UNIVERSITY

ANNOUNCEMENT OF THE
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SCHOOL OF DENTAL AND ORAL SURGERY

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630 WEST 168TH STREET • NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Fifty-first Series, No. 30

August 11, 1951

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from January for forty consecutive issues. Re-entered as second-class matter January 20, 1951, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Office of University Admissions.

C. U. P. 6,000—1951

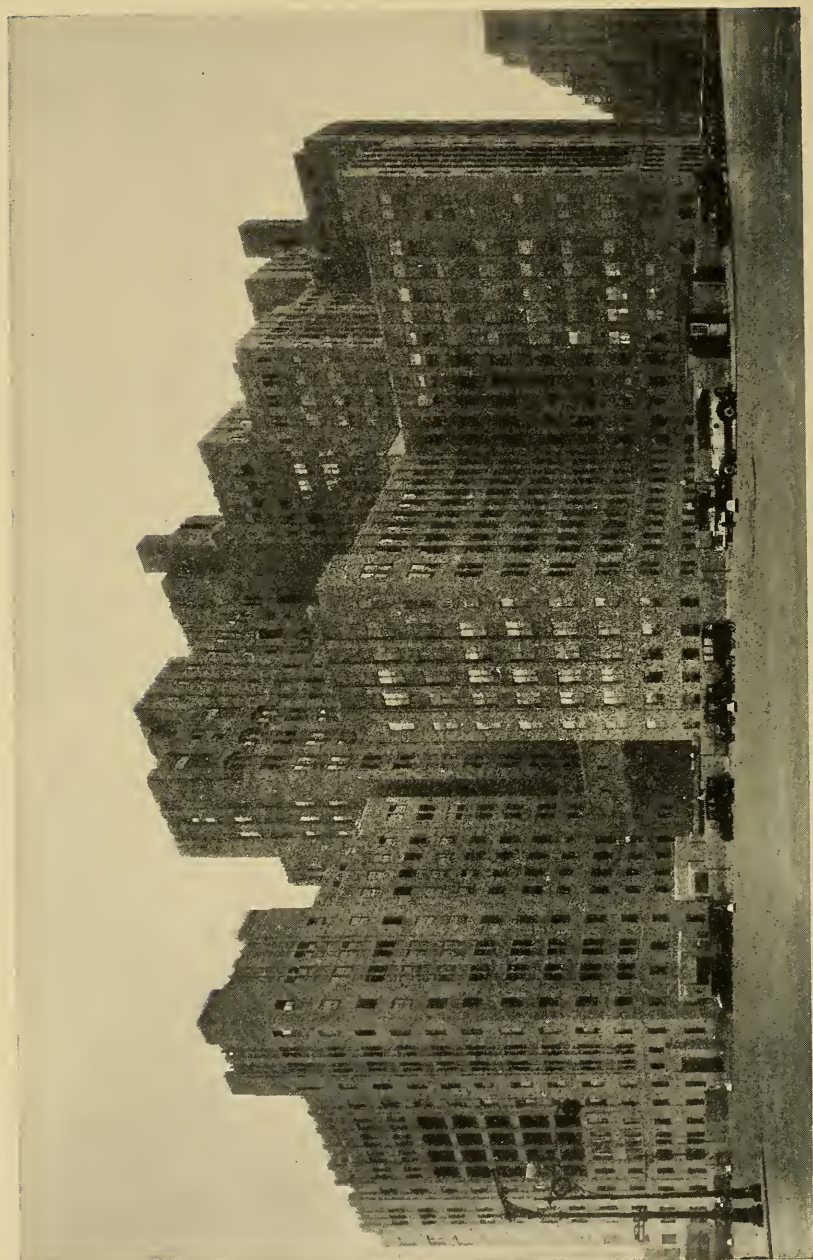
Communications

All communications regarding the School of Dental and Oral Surgery, applications for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone: Wadsworth 3-2500.

Announcements

The Announcements of each College or School and of the Summer Session may be obtained without charge from the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1951-1952

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

Partial Academic Calendar

Monday 9/15 ^{Dental} School Starts 1952

Monday 9/22 Thru Wed 9/24
Dental Hygiene Regis.

Monday 9/22 Opening exercise
199th yr

Wed 9/24 Dental Hygiene class
beg

Tues 11/4 Elec. Day - Halisa

Thurs 11/27 Thanksgiving Day "

Mon Dec 22 Thru

1953

Sun Jan 4 Christmas Halisa

Tues. June 2. Conferring of Degr
(Dental Hyg)

CONDENSED ACADEMIC CALENDAR

1951

- September 13 Thursday, through September 15, Saturday. Registration, including payment of fees.
- September 17 Monday. Classes begin.
- November 6 Tuesday. Election Day. Holiday.
- November 22 Thursday. Thanksgiving Day. Holiday.
- December 1 Saturday. End of first trimester.
- December 3 Monday. Beginning of second trimester.
- December 24 Monday, through

1952

- January 6 Sunday. Christmas Holidays.
- February 12 Tuesday. Lincoln's Birthday. Not a University Holiday.
- February ²⁹~~15~~ Friday. Dean's Day. Not a University Holiday.
- February 22 Friday. Washington's Birthday. Holiday.
- March 1 Saturday. End of second trimester.
Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.
- March 3 Monday. Beginning of third trimester.
- April 6 Sunday, through April 13, Sunday. Easter Holidays.
- May 24 Saturday. Last day of classes.
- May 26 Monday, through May 31, Saturday. Final examinations.
- May 30 Friday. Memorial Day. Holiday.
- June 5 Thursday. Conferring of degrees.

FACULTY OF MEDICINE

Officers of the Faculty

DWIGHT D. EISENHOWER, LL.D.	<i>President of the University</i>
GRAYSON L. KIRK, Ph.D., LL.D.	<i>Vice President of the University;</i> <i>Provost of the University</i>
WILLARD COLE RAPPLEYE, M.D., Sc.D., MED. Sc.D.	<i>Vice President in Charge of</i> <i>Medical Affairs; Dean of the Faculty of Medicine</i>
MAURICE J. HICKEY, M.D., D.M.D.	<i>Associate Dean (Dental and Oral Surgery)</i>
AURA E. SEVERINGHAUS, Ph.D.	<i>Associate Dean (Medicine); Secretary</i>
HAROLD W. BROWN, Sc.D., M.D., D.P.H.	<i>Acting Associate Dean (Public Health)</i>

The Faculty

J. BURNS AMBERSON	ROBERT F. LOEB
DANA W. ATCHLEY	EWING C. McBEATH
FRANK B. BERRY	RUSTIN McINTOSH
JAMES BORDLEY III	MONROE A. McIVER
HAROLD W. BROWN	IRVILLE H. MACKINNON
CHARLES L. BUXTON	ROLLO J. MASSELINK
GEORGE F. CAHILL	H. HOUSTON MERRITT
E. GURNEY CLARK	EDGAR G. MILLER, JR.
HANS T. CLARKE	JOHN L. NICKERSON
WILFRED M. COPENHAVER	WILLIAM BARCLAY PARSONS
RICHARD L. DAY	GEORGE A. PERERA
D. ANTHONY D'ESOP	J. LAWRENCE POOL
SAMUEL R. DETWILER	WILLARD C. RAPPLEYE
JOHN H. DUNNINGTON	DICKINSON W. RICHARDS, JR.
EARL T. ENGLE	HENRY ALSOP RILEY
JOHN W. FERTIG	WALTER S. ROOT
THOMAS P. FLEMING	HARRY M. ROSE
JOSEPH E. FLYNN	BEATRICE C. SEEGAL
EDMUND P. FOWLER, JR.	DAVID SEEGAL
VIRGINIA K. FRANTZ	AURA E. SEVERINGHAUS
ALFRED GILMAN	LAWRENCE W. SLOAN
ROSS GOLDEN	ALAN DE FOREST SMITH
LEONARD J. GOLDWATER	GILBERT P. SMITH
MAGNUS I. GREGERSEN	HARRY P. SMITH
ALEXANDER B. GUTMAN	PHILIP E. SMITH
CUSHMAN D. HAAGENSEN	ISIDORE SNAPPER
FRANKLIN M. HANGER, JR.	LEWIS R. STOWE
MICHAEL HEIDELBERGER	HOWARD C. TAYLOR
MAURICE J. HICKEY	KENNETH B. TURNER
HOUGHTON HOLLIDAY	HARRY B. VAN DYKE
GEORGE H. HUMPHREYS II	THEODORE J. C. VON STORCH
YALE KNEELAND, JR.	JEROME P. WEBSTER
NOLAN D. C. LEWIS	ABNER WOLF

1/7/52

Robert C. Darling
Emmanuel M. Wapner

Committee on Dental Education

MAURICE J. HICKEY, *Chairman* • CARL R. OMAN
 HANS T. CLARKE *Dr. M. Karshan* • GILBERT P. SMITH
 SAMUEL R. DETWILER *Path.* HARRY P. SMITH
 MAGNUS I. GREGERSEN • LEWIS R. STOWE
 HOUGHTON HOLLIDAY • ARTHUR C. TOTTEN
 BARNET M. LEVY • HARRY B. VAN DYKE *Pharm. Dr. Gilman*
 EWING C. McBEATH *representative to 4/25/52* • WILLARD C. RAPPEYE, *ex officio*
 AURA E. SEVERINGHAUS, *ex officio*
(Assoc. Dean)

Administrative Staff

at School of Dental and Oral Surgery

Anna D. Berhowsky
~~LUCIA KLEMOVICH~~ Assistant to the Registrar
 THOMAS P. FLEMING, M.S. Librarian

52-53

Maurice J. Hickey, Chairman
Samuel R. Detwiler
Magnus I. Gregersen
Houghton Holliday
Barnett M. Levy
Ewing C. McBeath
Carl R. Oman
Joseph Schroff
Gilbert P. Smith
Harry P. Smith
Lewis R. Stowe
Arthur C. Totten
Harry B. van Dyke
The Dean, ex officio
The Assoc. Dean, ex officio

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education at Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled *A Dental School on University Lines*. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the funda-

mentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the seventh, eighth, and ninth floors of the Vanderbilt Clinic wing, a net floor area of forty thousand square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in medicine, dentistry, public health, nursing, graduate and postgraduate medical and dental education. A committee on dental education, established by University statute, of which a majority is from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery is the chairman, initiates recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

Admission to First Year of the School of Dental and Oral Surgery

Application.—It is desirable that candidates make application during the academic year preceding that for which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Every application should be accompanied by a check or money order of five dollars, payable to Columbia University, to cover the cost of processing the application. This fee is not returnable.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must

include the satisfactory completion of the following courses required by the New York State Board of Regents:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of outside work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire college record of each student is carefully examined by the Committee on Admissions in order that those who are judged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special preidental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance (see page 10).

Combined Courses

Combined Courses with Columbia College.—Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College.—Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four

points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined Courses in Dentistry and Medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one summer session.

Admission of Foreign Students

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

Registration

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only with the written permission of the Dean, satisfactory cause for the delay having been shown.

Fees

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for the privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed for dental students:

(a) University Fee

1. For each Winter or Spring Session or any part thereof, for students enrolled for:

One to four points, inclusive \$ 5.00

More than four points to nine points, inclusive 10.00

More than nine points 20.00

2. For each Summer Session or any part thereof 7.00

3. For registration as engaged in research only for any period not longer than a Winter or a Spring Session 20.00

(b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments . . . 750.00

For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

(c) Fee for Application

For a degree	\$20.00
For a certificate	10.00

(d) Privileges

1. Late registration or late application for a degree or for deficiency or special examinations 3.00
2. Deficiency or special examinations 3.00
3. Renewal of application for any degree 1.00

(e) Student Health Service Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.

For all students, per academic year	20.00
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(f) Case Rental

For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments 5.00

(g) Rebates

1. The University fee and the fee for application for any degree shall not be subject to rebate.
2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

(h) Deposit 25.00

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fee for Processing of Application.—A fee of \$5.00 is charged to every student who applies for admission to the School of Dental and Oral Surgery or the School of Medicine. This fee covers the cost of processing the application.

Fees for Repeated Courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

Dental Equipment

Instruments and Supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

Estimated Expenses

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1950-1951 and can be accepted as applicable in general for the year 1951-1952 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and University fees	\$ 790	\$ 790
Miscellaneous fees	55	30
Room	330	190
Board	385	350
Books	150	115
Instruments (see below)	325	325
Laundry	75	35
	<hr/>	<hr/>
	\$2,110	\$1,835

4-102-0 2860
320
1540
5320

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

Students

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate dean or director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

Academic Discipline

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

Withdrawal

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

Requirements for Promotion

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under whom he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in the school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement.

II. Recommended for readmission to the same class.

III. Recommended neither for advancement nor for readmission to the same class:

a) Because of failure.

b) Because they fall under paragraph 2 of rules for advancement of students.

Grading of Students

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

Requirements for Graduation

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

Graduation

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

Courses for Dental Hygienists

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of Dental Hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Wherever possible, a personal interview is required before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours

of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	<i>Semester Hours</i>
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits for the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Dean, School of Dental and Oral Surgery, 630 West 168 Street, New York 32, N. Y.

Short Courses for Graduates in Dentistry

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1951-1952 short refresher courses will be offered in various subjects.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

Certificate of Training

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes not less than thirty credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in oral diagnosis and roentgenology, oral surgery, pedodontics, and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

Graduate Courses in the Basic Sciences

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: anatomy, bacteriology, biochemistry, pathology, pharmacology, and physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

Courses Leading to the Degree of Doctor of Philosophy

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the

Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the residence requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Office of University Admissions, Columbia University, New York 27, N. Y.

Public Health for Dentists

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

License to Practice Dentistry in New York State

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, New York. All applications for admission to the examinations should be completed at least thirty days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, oral diagnosis, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examination in anatomy, physiology and hygiene, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, who have completed the prescribed preliminary education requirement, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1951-1952

<i>Subjects*</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FIRST YEAR			
Anatomy			
✓ Embryology 152 <i>F</i>	19		19
✓ Gross 151 <i>FS</i>	50	223	273
✓ Microscopic 150 <i>FS</i>	42	126	168
✓ Neuro 153 <i>T</i>	30	36	66
✓ Oral 101 <i>ST</i>	19	117	136
Biochemistry 150 <i>ST</i>	39	117	156
Histology, Oral 115 <i>ST</i>	26	52	78
✓ Physiology 150 <i>FS</i>	56	156	212
Theory and Practice			
Dental History 287 <i>T</i>	10		10
			1,118

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

<i>Subjects*</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
SECOND YEAR			
Bacteriology 151 F and 152 F	43	99	142
Crown and Bridge 105 ST	10	165	175
Dental Materials 126 FS	10	56	66
Operative Dentistry 131 FST	20	201	221
Oral Hygiene 122 T	20		20
Pathology 150 FS	54	140	194
Periodontology 151 T		33	33
Pharmacology 150 ST	54	33	87
Prosthetic Dentistry 157 FST	20	206	226
Psychiatry 150 S	11		11
Theory and Practice			
Therapeutics 286 T	10		10
			1,185
THIRD YEAR			
Anatomy, Applied 252 S	10		10
Crown and Bridge			
Technique 205 F		80	80
Clinic 206 ST	10	113	123
Applied Occ. Dynamics 212 T		30	30
Diagnosis 212 FST	30	30	60
Operative Dentistry 233 FST	10	258	268
Orthodontics 241 F	20	60	80
Pathology, Oral 246 FS	20	60	80
Periodontology 251 S		30	30
Practice of Medicine 278 ST	40	22	62
Prosthetic Dentistry 260 FST and 261 FST	20	165	185
Radiology 267 F	10	14	24
Surgery, Oral 270 F	10	30	40
			1,072
FOURTH YEAR			
Crown and Bridge 210 FST and 211 FST	10	160	170
Diagnosis 213 F		30	30
Diagnosis Seminar 214 S		30	30
Diagnosis 215 T (continuation of 214)	10		10
Orthodontics 243 FST		30	30
Operative Dentistry 234 FST	20	308	328
Pedodontics 202 FST	10	88	98
Periodontology 252 FS and 253 FS	20	30	50
Prosthetic Dentistry 263 FST and 264 FST	10	159	169
Public Health 222 S	20		20
Surgery, Oral 272 FST	40	60	100
Surgery Seminar 274 T	10		10
Surgical Prosthesis 265 S		30	30
Theory and Practice			
Dental History 283	10		10
Ethics 281 F	10		10
Jurisprudence 282 T	10		10
Comprehensive 285 T			
			1,105

* Letter following course number designates trimester: F = first, S = second, and T = third.

1120 (4 yr. clock hours)

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow.

The outline on Pages 16 and 17 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115—Oral histology and embryology. Freshman year.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year.

Continuation of clinic of *Diagnosis 212*.

Diagnosis 214—Diagnosis seminar. Senior year.

Discussion and differential diagnosis of selected cases.

Diagnosis 215—Diagnosis seminar. Senior year.

Continuation of *Diagnosis 214*.

MEDICINE

Medicine 278—General survey of medicine. Junior year.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials—including the technique of porcelain inlay construction—and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year.

Lectures on the application of operative fundamentals to clinical practice. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced clinical practice. Senior year.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including endodontia.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year.

Lectures and conferences on scientific findings related to the etiology and prevention of dental caries and diseases of the periodontium.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention of malocclusion in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time devoted to the designing and constructing of removable appliances used as space maintainers, habit breakers, and to correct tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Junior year.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics lectures and clinic. Senior year.

Lectures and conferences on operative dental procedures for children, management of child dental patients, and the application of present knowledge of dental development and preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year.

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY

Pharmacology 150—Pharmacology. Sophomore year.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technique. Sophomore year.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychiatry for the dentist. Sophomore year.

Lectures on mental hygiene and general principles involved in the field of psychiatry. The development and organization of the personality. The effects of emotional problems, in the development of psychological symptoms, and psychosomatic disorders. General considerations in psychotherapy.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year.

Lectures, readings, and discussions on topics relative to oral radiology.
Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 270—Oral surgery. Junior year.

Lectures, seminars, demonstrations, and clinical practice on local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.
Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year.

Lecture and conference course on dental ethics, economics, office conduct, and practice management.

Theory and Practice 282—Dental jurisprudence. Senior year.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Senior year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

Theory and Practice 285—Comprehensive case. Senior year.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment-planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.
Formerly *Pharmacology 250*.

Theory and Practice 287—Dental history. Freshman year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY: Gross anatomy: One of the following three: Stedman, Gould, or American, *Medical Dictionary*; Cunningham, *Manual of Practical Anatomy*, Vols. II and III; mimeographed *Dissecting Directions*; one of the following three: Grant, *Atlas of Anatomy*; Truex and Kellner, *Detailed Atlas of the Head and Neck*; or Spalteholz, *Hand Atlas of Human Anatomy*.

Applied anatomy: Shapiro, *Applied Anatomy of the Head and Neck* (2d ed.).

Embryology: One of the following three: Arey, *Developmental Anatomy*; Hamilton, *Human Embryology*; or Patten, *Human Embryology*.

Microscopic anatomy: Bailey, *Textbook of Histology* (12th ed.); mimeographed laboratory manual.

Neuroanatomy: Strong and Elwyn, *Human Neuroanatomy*; mimeographed laboratory manual.

Oral anatomy: Diamond, *Dental Anatomy*.

Oral histology and embryology: Orban, *Oral Histology and Embryology*.

BACTERIOLOGY: Jordan and Burrows, *Textbook of Bacteriology* (15th ed.); Laboratory Manual in Medical Bacteriology and Immunology.

BIOCHEMISTRY: Harrow, *Textbook of Biochemistry* (5th ed.); Karshan, *Laboratory Manual of Biochemistry for Dental Students*.

DENTAL ETHICS AND PRACTICE MANAGEMENT: McGehee and Walker, *Dental Practice Management*.

DENTAL THERAPEUTICS: Council on Therapeutics, American Dental Association, *Accepted Dental Remedies*.

DIAGNOSIS: Ziskin *et al.*, *Differential Diagnosis* (1st ed.); Ziskin, *Pulp Symptomatology* (1943 ed.).

MEDICINE: Yater, *Fundamentals of Internal Medicine* (3d rev. ed.); Grossman, *Root Canal Therapy*.

OPERATIVE DENTISTRY: Black, *Operative Dentistry*, Vols. II and III; *Operative Dentistry Syllabus*.

ORAL PATHOLOGY: Thoma, *Oral Pathology* (3d ed.); or Kronfeld, *Histopathology of the Teeth* (3d ed.).

ORTHODONTICS: Salzman, *Principles of Orthodontics*.

PATHOLOGY: One of the following four: Boyd, *Textbook of Pathology*; Karsner, *Textbook of Pathology*; Moore, *Textbook of Pathology*; or *Anderson's Pathology*.

PEDODONTICS: McBride, *Juvenile Dentistry* (4th ed. or later).

PERIODONTOLOGY: Goldman, *Periodontia*.

PHARMACOLOGY: One of the following four: Gaddum, *Pharmacology*; Goodman and Gilman, *Pharmacological Basis of Therapeutics* (1941); Sollman, *Pharmacology*; or Oldham, Kelsey, and Geiling, *Essentials of Pharmacology*.

PHYSIOLOGY: One of the following five: Wiggens, *Physiology in Health and Disease* (5th ed.); Fulton, *Textbook of Physiology* (16th ed.); Starling, *Human Physiology* (10th ed.); Best and Taylor, *Physiological Basis of Medical Practice* (1950), or Bard, *Macleod's Physiology in Modern Physiology* (9th ed.); and *Physiology Laboratory Manual*.

PROSTHETIC DENTISTRY: Skinner, *Science of Dental Materials*; Swenson, *Complete Dentures*; Tylman, *Crown and Bridge Prosthesis*; United States Government Printing Office, *Physical Properties of Dental Materials*; Young *et al.*, *Syllabus on Complete Dentures*.

PSYCHIATRY: Streckner, *Fundamentals of Psychiatry* (4th ed.).

RADIOLOGY: McCall and Wald, *Clinical Dental Roentgenology* (2d ed.).

SURGERY: Berger, *Principles and Technique of Oral Surgery*; Berger, *Principles and Technique of the Removal of Teeth*; Parker, *Synopsis of Traumatic Injuries of the Face and Jaw*; Homan, *Textbook of Surgery*.

SURGICAL PROSTHESIS: O. E. Beder, *Surgical and Maxillofacial Prosthesis* (1st ed.).

STUDENT ORGANIZATIONS

Omicron Kappa Upsilon

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 percent of the members of the graduating Senior class, on the basis of scholarship, character, and possession of potential qualities for future professional growth and attainments.

The William Jarvie Society

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based on scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

Registration of Student Organizations

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (a) the use of names in which the name of the University is embodied or suggested, and (b) the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

FACILITIES

Library

The Library occupies part of the three lower floors in the College building. It provides current literature (both books and journals) for faculty and students and it aids in research through its own collections of current and historical works and through its unique bibliographical service.

The Library contains approximately 160,000 volumes of books and journals, some 5,000 pamphlets, and about 2,000 lantern slides on the history of medicine. More than 1,800 periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The Library is normally open:

Monday-Friday	8:30 A.M.-10:00 P.M.
Saturday	9:30 A.M.- 6:00 P.M.
Sunday	12 NOON-5:00 P.M.

University Libraries.—The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

University Privileges

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium.—The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium, baths, and private lockers.

Student Health Service

Daily office hours are held by the Student Health Service in Room 2-220 of the Vanderbilt Clinic. In addition, the physician-in-charge of the Health Service is available to attend ill students if they reside in the immediate vicinity of the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

Religious Life

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University, the Rev. James A. Pike, is assisted by three religious counselors: the Rev. Samuel J. Wylie, Counselor to Protestant Students; the Rev. John K. Daly, Counselor to Roman Catholic students; and Rabbi Isidor B. Hoffman, Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves with the schedules which are conveniently posted.

A number of student religious organizations are established to which the Chaplain and counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

University Residence Halls

The Men's Residence Halls, located on the 116th Street Campus, house unmarried men students. For further information write direct to the Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27, N. Y.

Johnson Hall, a residence hall for graduate women students, is available for unmarried women students on a room and board basis. For further information write to Miss Helen M. Carlson, Head of Johnson Hall, Columbia University, New York 27, N. Y.

The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

King's Crown Hotel

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

International House

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write directly to International House, 500 Riverside Drive, New York 27, N. Y.

Medical Center Bookstore

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 a.m. to 5:30 p.m.; Saturdays, 8:45 a.m. to 1:30 p.m.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not more than three additional years. The annual stipend is \$1,600. Applications should be submitted on or before February 20 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 14.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to the student

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\$1,500 -

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list

of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in pedodontics has been established by the Class of 1929.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

Student Aid

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

Student Employment

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

OFFICERS OF INSTRUCTION

- HAROLD ALEXANDER ABRAMSON *Assistant Clinical Professor of Physiology*
A.B., Columbia, 1920; M.D., 1923
- THOMAS HUNTER ALLEN *Assistant Professor of Physiology*
A.B., Iowa, 1936; Ph.D., 1941
- VIRGINIA APGAR *Professor of Anesthesia*
A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933
- EDMUND APPLEBAUM *Associate Professor of Dental Anatomy*
D.D.S., New York College of Dentistry, 1922
- HENRY ARTHUR BARTELS *Assistant Professor of Oral Pathology*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927
- OSCAR E. BEDER *Assistant Professor of Dentistry*
B.S., Rutgers, 1936; D.D.S., Columbia, 1941
- FRANK E. BEUBE *Associate Clinical Professor of Dentistry*
L.D.S., D.D.S., Toronto, 1930
- HAROLD WILLIAM BROWN *Associate Dean (Public Health); Director,
School of Public Health; Professor of Parasitology*
A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt,
1933; D.P.H., Harvard, 1936
- JACK BUDOWSKY *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1943
- LESTER RICHARD CAHN *Associate Professor of Oral Pathology*
D.D.S., New York College of Dentistry, 1917
- EDWARD A. CAIN, JR. *Assistant Professor of Dentistry*
B.S., Fordham, 1942; D.D.S., Columbia, 1945
- LOUIS J. CIZEK *Assistant Professor of Physiology*
B.S., Fordham, 1937; M.D., Columbia, 1941
- E. GURNEY CLARK *Professor of Epidemiology*
A.B., Vanderbilt, 1927; M.D., Vanderbilt, 1931; M.P.H., Johns Hopkins, 1936; D.P.H., Johns Hop-
kins, 1944
- ¹HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1914
- LOUIS ALEXANDER COHN *Assistant Clinical Professor of Dentistry*
D.D.S., Pennsylvania, 1928
- WILFRED MONROE COPENHAVER *Associate Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925
- JOSEPH ANTHONY CUTTITA *Assistant Professor of Dentistry*
A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (*hon.*), 1931
On leave 1951-1952.

- ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917
- EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925
- JOHN WILLIAM FERTIG *Professor of Biostatistics*
A.B., Ursinus, 1931; Ph.D., Minnesota, 1935
- MORRIS FIERSTEIN *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1921
- JOSEPH E. FLYNN *Associate Professor of Pathology*
A.B., Columbia (Iowa), 1933; M.D., Iowa, 1938
- HARRY ALLEN GALTON *Associate Clinical Professor of Dentistry*
D.D.S., Columbia, 1932
- ALFRED GILMAN *Professor of Pharmacology*
B.S., Yale, 1928; Ph.D., 1931
- LEONARD J. GOLDWATER *Professor of Industrial Hygiene*
A.B., Michigan, 1924; M.D., New York University, 1928; Med.Sc.D., Columbia, 1937; M.S.P.H., 1941
- JOHN E. GORRELL *Associate Professor of Hospital Administration*
B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930
- ROBERT GOTTSEGEN *Assistant Professor of Dentistry*
A.B., Michigan, 1939; D.D.S., Columbia, 1943
- WILSON C. GRANT *Assistant Professor of Physiology*
A.B., Wesleyan, 1937; A.M., 1938; Ph.D., Maryland, 1942
- MAGNUS INGSTRUP GREGERSEN *Dalton Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930
- JOHN M. HENDERSON *Professor of Sanitary Science*
C.E., Cornell, 1927
- ROBERT E. HERLANDS *Assistant Professor of Dentistry*
A.B., Columbia, 1941; D.D.S., 1944
- MAURICE J. HICKEY *Associate Dean (Dental and Oral Surgery);
Professor of Oral Surgery*
D.M.D., Harvard, 1932; M.D., Columbia, 1937
- GEORGE W. HINDELS *Assistant Clinical Professor of Dentistry*
M.D., Vienna, 1938; D.D.S., Columbia, 1943
- HOUGHTON HOLLIDAY *Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917; D.D.S. (*hon.*), Montreal, 1945
- IRVIN LELAND HUNT, JR. *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1929
- ALVIN R. JACOBSON *Assistant Professor of Sanitary Science*
B.S., North Dakota, 1935; M.S., 1937; Ph.D., Iowa, 1941
- ELVIN A. KABAT *Associate Professor of Bacteriology*
B.S., College of the City of New York, 1932; A.M., Columbia, 1934; Ph.D., 1937

- MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925
- GEORGE B. KOELLE *Assistant Professor of Pharmacology*
B.S., Philadelphia, College of Pharmacy, 1939; Ph.D., Pennsylvania, 1946; M.D., Johns Hopkins, 1950
- BARNET M. LEVY *Professor of Dentistry*
A.B., Pennsylvania, 1938; D.D.S., 1942; M.S., Virginia, 1944
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914
- GEORGE FRANK LINDIG *Associate Clinical Professor of Dentistry*
D.D.S., Minnesota, 1924
- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921
- SAUL MISHELOFF *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1932
- WILLIAM LEO NASTUK *Assistant Professor of Physiology*
B.S., Rutgers, 1939; Ph.D., 1945
- ALVIN S. NATHAN *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1926; B.S., New York University, 1935; A.M., 1938
- JOHN LESTER NICKERSON *Professor of Physiology*
A.B., Dalhousie, 1925; A.M., 1928; Ph.D., Princeton, 1935
- CARL REUBEN OMAN *Professor of Dentistry*
D.D.S., Minnesota, 1914
- ARMAND OPPENHEIMER *Assistant Clinical Professor of Dentistry*
B.S., Columbia, 1927; D.D.S., 1929
- DOUGLAS BURNETT PARKER *Clinical Professor of Oral Surgery*
M.D., Long Island College of Medicine, 1912; D.D.S., Pennsylvania, 1914
- MAX A. PLEASURE *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1928; M.S.P.H., Columbia, 1941
- WILLARD COLE RAPPLEYE *Dean, Faculty of Medicine; Vice President in Charge of Medical Affairs; Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (*hon.*), Yale, 1922; Sc.D., Trinity (Conn.), 1939; Rutgers, 1949; Med.Sc.D., Women's Medical College of Pennsylvania, 1950
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927
- WALTER STANTON ROOT *Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930
- HARRY M. ROSE *Professor of Bacteriology*
A.B., Yale, 1928; M.D., Cornell, 1932
- SOLOMON NATHAN ROSENSTEIN *Associate Professor of Dentistry*
B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930
- WILLIAM J. SAVOY *Assistant Clinical Professor of Dentistry*
B.S., Manhattan, 1931; D.D.S., Columbia, 1935

- SAUL SCHLUGER *Assistant Clinical Professor of Dentistry*
D.D.S., Louisville, 1931
- JOSEPH SCHROFF *William Carr Professor of Oral Surgery*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922
- BEATRICE C. SEEGAL *Associate Professor of Bacteriology*
A.B., California, 1918; A.M., 1921; M.D., Johns Hopkins, 1924
- HARRY H. SHAPIRO *Assistant Professor of Anatomy*
D.D.M., Tufts, 1918
- MAURICE E. SHILS *Assistant Professor of Nutrition*
A.B., Johns Hopkins, 1937; Sc.D., 1940
- WILLIAM H. SILVERSTEIN *Assistant Clinical Professor of Dentistry*
D.D.S., Maryland, 1937
- GEORGE K. SMELSER *Associate Professor of Anatomy*
A.B., Earlham, 1929; Ph.D., Chicago, 1932
- GILBERT PERCIVAL SMITH *Professor of Dentistry*
D.D.S., Minnesota, 1927
- HARRY PRATT SMITH *Delafield Professor of Pathology*
A.B., California, 1916; M.S., 1918; M.D., 1921
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; Sc.D., 1949; M.S., Cornell, 1910; Ph.D., 1912; Sc.D., Princeton, 1948
- LEO STERN, SR. *Clinical Professor of Dentistry*
D.D.S., New York College of Dentistry, 1912
- WELLINGTON B. STEWART *Assistant Professor of Pathology*
B.S., Notre Dame, 1942; M.D., Rochester, 1945
- FRANCES A. STOLL *Associate Professor of Dental Hygiene*
R.D.H., Columbia, 1934; B.S., 1944; A.M., 1945; Ed.D., 1949
- LEWIS RIDDELL STOWE *Professor of Dentistry*
D.D.S., Minnesota, 1916
- DAVID TANCHESTER *Clinical Professor of Dentistry*
D.D.S., New York University, 1921
- WILLIAM A. THEMANN *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1927
- ARTHUR CRANSTON TOTTEN *Professor of Dentistry*
D.D.S., Pennsylvania, 1926
- JAMES L. TROUPIN *Associate Professor of Public Health Practice*
M.D., Tufts, 1932; M.S., Columbia, 1942
- HARRY BENJAMIN VAN DYKE *Hosack Professor of Pharmacology*
B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923
- WILLIAM WELCH WALCOTT *Assistant Professor of Physiology*
A.B., Yale, 1933; Ph.D., Columbia, 1944

- SHIH-CHUN WANG *Associate Professor of Physiology*
B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940
- EVELYN WITOL *Assistant Clinical Professor of Dentistry*
D.M.D., Tufts, 1945
- EDWARD VICTOR ZEGARELLI *Associate Professor of Dentistry*
A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942
-

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- ROBERT DRELICH, D.D.S. *Assistant in Anatomy*
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- HERBERT PHILIP FRITZ, D.D.S. *Instructor in Dentistry*

¹ On leave 1951-1952 (Military Service).

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¹ ROBERT J. GORLIN, D.D.S.	<i>Instructor in Dentistry</i>
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JOHN D. HOGAN, D.D.S.	<i>Instructor in Dentistry</i>
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EVOLD LINDER	<i>Instructor in Dental Radiology Technique</i>
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JOSEPH LUBAN, D.D.S.	<i>Research Assistant in Dentistry</i>
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JOHN J. LUCCA, D.D.S.	<i>Instructor in Dentistry</i>
HARRIET G. MCCORMICK, Ph.D.	<i>Lecturer in Dental Hygiene</i>
CLARE K. MADDEN, D.D.S.	<i>Instructor in Dentistry</i>
EDITH I. MAGUIRE, R.D.H.	<i>Lecturer in Dental Hygiene</i>
IRWIN D. MANDEL, D.D.S.	<i>Instructor in Dentistry</i>
ARTHUR H. MERRITT, D.D.S., Sc.D.	<i>Lecturer in Dentistry</i>

¹ On leave 1951-1952 (Military Service).

HENRY MILCH, M.D.	<i>Instructor in Anatomy</i>
WILLIAM MILLER, D.D.S.	<i>Instructor in Dentistry</i>
WILLIAM JOHN MILLER, D.D.S.	<i>Instructor in Dentistry</i>
MELVIN L. MORRIS, D.D.S.	<i>Instructor in Dentistry</i>
ROBERT NELSON, M.D.,	<i>Instructor in Physiology</i>
HANS H. NEUMANN, M.D.,	<i>Research Assistant in Dentistry</i>
¹ STANLEY F. NIEF, D.D.S.	<i>Instructor in Dentistry</i>
CURT PROSKAUER, D.M.D.	<i>Curator of the Museum, Dental and Oral Surgery</i>
ARNOLD C. ROSENBERG, D.D.S.	<i>Assistant in Dentistry</i>
FRED ROTHENBERG, M.D., D.D.S.	<i>Instructor in Dentistry</i>
JULIAN SCHROFF, D.D.S.	<i>Assistant in Dentistry</i>
LOUIS LASZLO SCHWARTZ, D.D.S.	<i>Lecturer in Dentistry</i>
¹ STEVEN SCRIVANI, D.D.S.	<i>Assistant in Dentistry</i>
ALEXANDER SEELIG, D.D.S.	<i>Instructor in Anatomy</i>
BOAZ SHATTAN, D.D.S.	<i>Instructor in Dentistry</i>
HAROLD SHERMAN, D.D.S.	<i>Instructor in Dentistry</i>
HERBERT F. SILVERS, D.D.S.	<i>Research Associate in Dentistry</i>
FRANKLIN A. SQUIRES, D.D.S.	<i>Lecturer in Dentistry</i>
GEORGE STEIN, M.D., D.M.D.	<i>Research Associate in Dentistry</i>
LEO STERN, JR., D.D.S.	<i>Instructor in Dentistry</i>
WALTER W. STEVENS, B.B.S.	<i>Instructor in Dentistry</i>
WELLINGTON B. STEWART, M.D.	<i>Associate in Pathology</i>
BENJAMIN TENENBAUM, D.D.S.	<i>Research Associate in Dentistry</i>
¹ JOSEPH J. C. THOMSON, D.D.S.	<i>Assistant in Dentistry</i>
FERDINAND A. TUOTI, D.M.D.	<i>Instructor in Dentistry</i>
¹ ENNIO L. UCCELLANI, D.D.S.	<i>Assistant in Dentistry</i>
WILLIAM A. VERLIN, D.D.S.	<i>Instructor in Dentistry</i>
CLIFFORD L. WHITMAN, D.D.S.	<i>Instructor in Dentistry</i>
FREDERICK F. YONKMAN, Ph.D., M.D.	<i>Lecturer in Pharmacology</i>

¹ On leave 1951-1952 (Military Service).

Clinical Assistants

AARON L. ACKERMAN, D.D.S., M.P.H.
 JEROME BARTWINK, D.M.D.
 DANIEL BLATMAN, D.D.S.
 SEBASTIAN A. BRUNO, D.M.D.
 HYMAN A. CITRON, D.D.S.
 DAVID A. DRAGIFF, D.D.S.
¹JESSE W. FIELD, D.D.S.
 IDA M. GOLOMB, D.D.S.
 EDWARD HEIDT, D.D.S.
 STANLEY S. HELLER, D.D.S.
 HEDDA M. JOHN, D.D.S.
 FRANK KANTER, D.D.S.
 JACOB I. KAPLAN, D.D.S.
 JOHN A. KORNIWICZ, D.D.S.

¹ROBERT G. KROLL, D.D.S.
 SEYMOUR LEVINE, D.D.S.
 GEORGE MINERVINI, D.D.S.
 HOWARD B. MOSHMAN, D.D.S.
 HENRY I. NAHOUM, D.D.S.
 JOHN D. PIRO, D.D.S.
 SYDNEY C. RAPPAPORT, D.D.S.
 NATHANIEL RATTNER, D.D.S.
¹MORTON L. SHAPIRO, D.D.S.
 WALTER G. SPENGEMAN, D.D.S.
 EDWARD E. TELTSCH, D.D.S.
 VINCENT D. VARALLO, D.D.S.
 SEYMOUR ZEFF, D.D.S.
 DAVID ZEISLER, D.D.S.

LENARD ZUCKERMAN, D.D.S.

Presbyterian Hospital Dental Service

LEWIS R. STOWE, *Director of Service*

Attending Dental Surgeons

HOUGHTON HOLLIDAY
 CARL R. OMAN

JOSEPH SCHROFF
 GILBERT P. SMITH
 ARTHUR C. TOTTEN

Associate Attending Dental Surgeons

LESTER R. CAHN
 IRVIN L. HUNT, JR.
 BARNET M. LEVY

ALVIN S. NATHAN
 SOLOMON N. ROSENSTEIN
 WILLIAM J. SAVOY
 EDWARD V. ZEGARELLI

Assistant Attending Dental Surgeons

OSCAR E. BEDER
 FRANK E. BEUBE
 JACK BUDOWSKY

EDWARD A. CAIN
 BOAZ SHATTAN
 ADOLPH BERGER, *Consultant*

ALBIN R. SEIDEL, *Consultant*

Presbyterian Hospital Oral Surgery Service

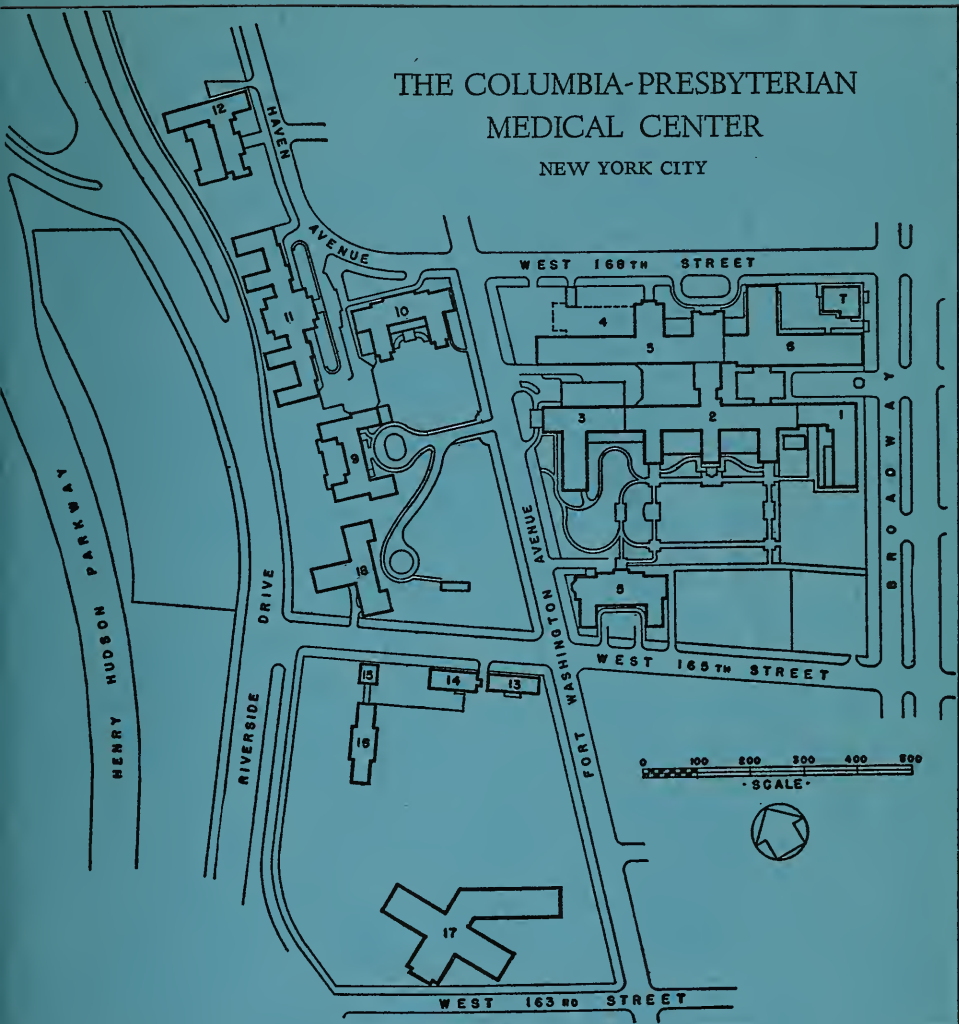
MAURICE J. HICKEY, D.M.D., M.D., *Assistant Attending Surgeon*
 STANLEY L. LANE, M.D., D.D.S., *Assistant Attending Surgeon*

¹ On leave 1951-1952 (Military Service).

2-53 list Francis Delafield Hospital
 appointments

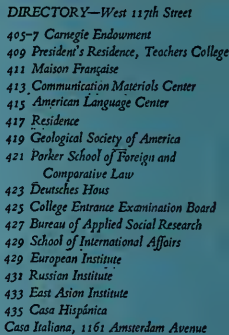
THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

NEW YORK CITY



1. Babies Hospital
2. Presbyterian Hospital
Sloane Hospital
New York Orthopaedic Hospital
3. Harkness Pavilion
4. Power plant
5. College of Physicians and Surgeons
6. Vanderbilt Clinic
School of Dental and Oral Surgery
7. Washington Heights Health and Teaching
Center, New York City Department of
Health
School of Public Health
8. Institute of Ophthalmology
9. Maxwell Hall
10. Neurological Institute
11. New York State Psychiatric Institute and
Hospital
12. Bard Hall
- 13, 16. Storage
14. Shops
15. Housing
17. Francis Delafield Hospital, New York City
Department of Hospitals
18. Edward S. Harkness Memorial Hall

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COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fifty-second Series, No. 32

August 23, 1952

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ANNOUNCEMENT OF THE
SCHOOL OF DENTAL AND
ORAL SURGERY
OF THE
FACULTY OF MEDICINE
1952-1953

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET · NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-second Series, No. 32

August 23, 1952

Issued at Columbia University, Morningside Heights, New York 27, N.Y., weekly from January for forty-two consecutive issues. Reentered as second-class matter October 24, 1951, at the Post Office at New York, N.Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 7,000—1952

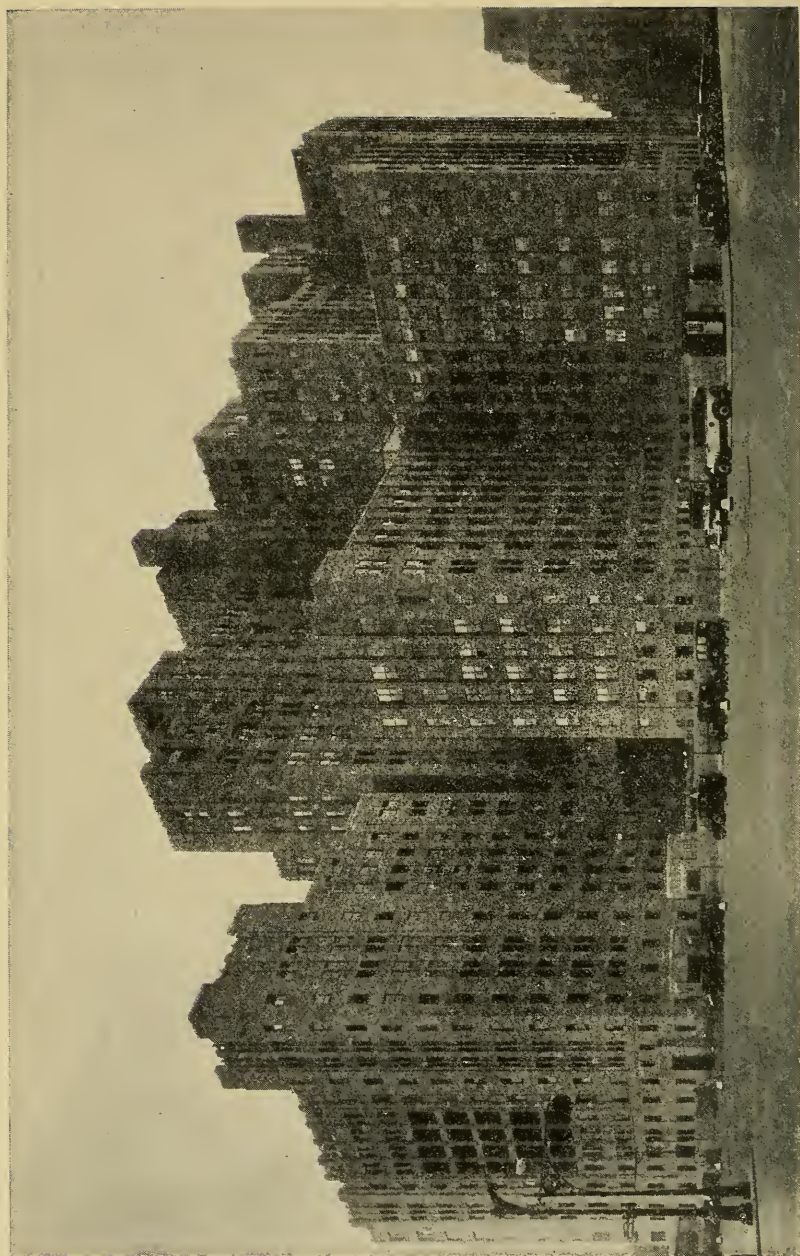
Communications

All communications regarding the School of Dental and Oral Surgery, applications for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.; telephone: Wadsworth 3-2500.

Announcements

The Announcements of each College or School and of the Summer Session may be obtained without charge by writing to the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Columbia University in the City of New York

ANNOUNCEMENT OF THE SCHOOL OF DENTAL AND ORAL SURGERY

OF THE
FACULTY OF MEDICINE



1952-1953

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N. Y.

CONDENSED ACADEMIC CALENDAR

1952

- September 11 Thursday, through September 13, Saturday. Registration, including payment of fees.
- September 15 Monday. Classes begin.
- November 4 Tuesday. Election Day. Holiday.
- November 27 Thursday. Thanksgiving Day. Holiday.
- November 29 Saturday. End of first trimester.
- December 1 Monday. Beginning of second trimester.
- December 22 Monday, through

1953

- January 4 Sunday. Christmas Holidays.
- February 12 Thursday. Lincoln's Birthday. Not a University Holiday.
- February 22 Sunday. Washington's Birthday. February 23, Monday, holiday.
- February 28 Saturday. End of second trimester.
- March 2 Monday. Beginning of third trimester.
Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.
- March 29 Sunday, through April 5, Sunday. Easter Holidays.
- May 23 Saturday. Last day of classes.
- May 25 Monday, through May 29, Friday. Final examinations.
- May 30 Saturday. Memorial Day. Holiday.
- June 2 Tuesday. Conferring of degrees.

FACULTY OF MEDICINE

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GRAYSON KIRK, PH.D., LL.D.	<i>Vice President and Provost of the University</i>
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LEONARD J. GOLDWATER	LAWRENCE W. SLOAN
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ALEXANDER B. GUTMAN	GILBERT P. SMITH
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THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education at Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a dental school be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled *A Dental School on University Lines*. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

"Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine."

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this School.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the funda-

mentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies three floors, a net area of forty thousand square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in medicine, dentistry, public health, and nursing. A committee on dental education, established by University statute, of which a majority is from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery is the chairman, initiates recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years and leads to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University, which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application.—It is desirable that candidates make application during the academic year preceding that for which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y. Every application should be accompanied by a check or money order for five dollars, payable to Columbia University, to cover the cost of processing the application. This fee is not returnable.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must

include the satisfactory completion of the following courses required by the New York State Board of Regents:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of outside work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire college record of each student is carefully examined by the Committee on Admissions in order that those who are judged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance (see page 10).

All applicants will be required to take the Dental Aptitude Tests conducted by the Council on Dental Education at various testing centers throughout the United States and Canada. For further information apply directly to the Division of Aptitude Testing, Council on Dental Education of the American Dental Association, 222 East Superior Street, Chicago 11, Illinois.

COMBINED COURSES

Combined Courses with Columbia College.—Upon receiving ninety-six points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College.—Students from Barnard College may exercise

the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined Courses in Dentistry and Medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one Summer Session.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only with the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for the privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed for dental students:

a) University Fee

1. For each Winter or Spring Session or any part thereof, for students enrolled for:

One to four points, inclusive	\$ 5.00
More than four points to nine points, inclusive	10.00
More than nine points	20.00
2. For each Summer Session or any part thereof 7.00
3. For registration as engaged in research only for any period not longer than a Winter or a Spring Session 20.00

b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments \$825.00
 For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

c) Fee for Application

For a degree 20.00
 For a certificate 10.00

d) Privileges

1. Late registration or late application for a degree or for deficiency or special examinations 3.00
2. Deficiency or special examinations 3.00
3. Renewal of application for any degree 1.00

e) Student Health Service Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.
 For all students, per academic year 20.00

f) Case Rental

For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments 5.00

g) Rebates

1. The University fee and the fee for application for any degree shall not be subject to rebate.
2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.
 When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

Acceptance Fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fee for Processing of Application.—A fee of \$5.00 is charged to every student who applies for admission to the School of Dental and Oral Surgery or the School of Medicine. This fee covers the cost of processing the application.

Fees for Repeated Courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1951-1952 and can be accepted as applicable in general for the year 1952-1953 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and University fees	\$ 865	\$ 865
Miscellaneous fees	55	30
Room	330	297
Board	385	350
Books	150	115
Instruments (see below)	325	325
Laundry	75	35
	<hr/>	<hr/>
	\$2,185	\$2,017

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

COLUMBIA UNIVERSITY

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under whom he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in the school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement.

II. Recommended for readmission to the same class.

III. Recommended neither for advancement nor for readmission to the same class:

a) Because of failure.

b) Because they fall under paragraph 2 of requirements for promotion.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION •

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of dental hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Wherever possible, a personal interview is required before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	<i>Semester Hours</i>
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits of the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Director, Courses for Dental Hygienists, 630 West 168th Street, New York 32, N.Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1952-1953 short refresher courses will be offered in various subjects.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes not less than thirty credits of special work in the clinical and basic science branches of dentistry approved by the Dean. At present, an organized sixteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in oral diagnosis and roentgenology, oral surgery, pedodontics, and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the residence requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained by writing to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N.Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, N.Y. All applications for admission to the examinations should be completed at least thirty days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, oral diagnosis, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 per cent.

The State Department of Education will admit conditionally to the examination in anatomy, physiology and hygiene, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared their intention of becoming citizens in accordance with the law, who have completed the prescribed preliminary education requirement, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1952-1953

<i>Subjects*</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FIRST YEAR			
Anatomy			
Embryology 152 <i>F</i>	18		18
Gross 151 <i>FS</i>	50	222	272
Microscopic 150 <i>FS</i>	42	126	168
Neuro 153 <i>T</i>	30	36	66
Oral 101 <i>ST</i>	19	82	101
Biochemistry 150 <i>ST</i>	38	117	155
Histology, Oral 115 <i>ST</i>	25	52	77
Physiology 150 <i>FS</i>	56	152	208
Theory and Practice			
Dental History 287 <i>T</i>	10		10
			1,075

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

<i>Subjects*</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
SECOND YEAR			
Crown and Bridge 105 <i>ST</i>	20	184	204
Dental Materials 126 <i>FS</i>	10	56	66
Microbiology 151 <i>F</i> and 152 <i>F</i>	43	99	142
Operative Dentistry 131 <i>FST</i>	20	187	207
Pathology 150 <i>FS</i>	54	141	195
Periodontology 151 <i>T</i>	10	44	54
Pharmacology 150 <i>ST</i>	55	33	88
Prosthetic Dentistry 157 <i>FST</i>	20	198	218
Psychiatry 150 <i>S</i>	11		11
Surgery, Principles 168 <i>ST</i>	10		10
Surgery, Oral 270A <i>ST</i>	10		10
Theory and Practice Therapeutics 286 <i>T</i>	10		10
			1,215
THIRD YEAR			
Anatomy, Applied 252 <i>S</i>	10		10
Crown and Bridge Technique 205 <i>F</i>		96	96
Clinic 206 <i>ST</i>	10	114	124
Applied Occlusal Dynamics 212 <i>T</i>		30	30
Diagnosis 212 <i>FST</i>	30	25	55
Operative Dentistry 233 <i>FST</i>	10	276	286
Orthodontics 241 <i>F</i>	20	60	80
Pathology, Oral 246 <i>FS</i>	20	60	80
Periodontology 251 <i>S</i>		30	30
Practice of Medicine 278 <i>ST</i>	40	22	62
Prosthetic Dentistry 260 <i>FST</i> and 261 <i>FST</i>	20	177	197
Radiology 267 <i>F</i>	10	15	25
Surgery, Oral 270B <i>F</i>	10	20	30
			1,105
FOURTH YEAR			
Crown and Bridge 210 <i>FST</i> and 211 <i>FST</i>	10	165	175
Diagnosis 213 <i>F</i>		25	25
Diagnosis Seminar 214 <i>S</i>		30	30
Diagnosis 215 <i>T</i> (continuation of 214)	10		10
Orthodontics 242 <i>FST</i>		30	30
Operative Dentistry 234 <i>FST</i>	20	305	325
Pedodontics 202 <i>FST</i>	10	87	97
Periodontology 252 <i>FS</i> and 253 <i>FS</i>	20	30	50
Prosthetic Dentistry 263 <i>FST</i> and 264 <i>FST</i>	10	165	175
Public Health 222 <i>S</i>	20		20
Surgery, Oral 272 <i>FST</i>	40	60	100
Surgery Seminar 274 <i>T</i>	10		10
Surgical Prosthesis 265 <i>T</i>		30	30
Theory and Practice Dental History 283 <i>F</i>	10		10
Ethics, Jurisprudence and Practice Man- agement 281 <i>FST</i>	30		30
Comprehensive 285 <i>T</i>			
			1,117

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow.

The outline on pages 16 and 17 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115—Oral histology and embryology. Freshman year.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year.

Lectures and demonstration dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year.

Lectures and clinical practice in diagnostic procedures, comprehensive diagnosis, pulp symptomatology, radiographic interpretation, and diagnosis of lesions and diseases of the oral cavity.

Diagnosis 213—Dental diagnosis clinic. Senior year.

Continuation of clinic of *Diagnosis 212*.

Diagnosis 214—Diagnosis seminar. Senior year.

Discussion and differential diagnosis of diseases of the oral cavity.

Diagnosis 215—Diagnosis seminar. Senior year.

Continuation of *Diagnosis 214*.

MEDICINE

Medicine 278—General survey of medicine. Junior year.

Lectures and conferences covering phases of general medicine; also clinics in which patients are studied for conspicuous manifestations of systemic conditions and their significance.

MICROBIOLOGY

Microbiology 151—General medical microbiology and immunology. Sophomore year.

Lectures, conferences, and laboratory.

Microbiology 152—Principles of microbiology, immunology, and epidemiology. Sophomore year.

This course is identical with *Microbiology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year.

Lectures on the fundamentals of operative dentistry, including the etiology of dental caries and the biological approach to the technical procedures in the filling of teeth. The study of dental materials, including the technique of porcelain inlay construction.

Operative Dentistry 233—Operative clinical practice. Junior year.

Introduction to clinical practice. Lectures on the application of operative fundamentals to clinical practice. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced clinical practice. Senior year.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including endodontia.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention of malocclusion in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time is devoted to the designing and constructing of removable appliances used as space maintainers and habit breakers and to correcting tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Senior year.

Clinical orthodontics.

PATHOLOGY**Pathology 150—General and special pathology. Sophomore year.**

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS**Pedodontics 202—Pedodontics lectures and clinic. Senior year.**

Lectures and conferences on operative dental procedures for children, management of child dental patients, and the application of present knowledge of dental development and preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY**Periodontology 151—Periodontia clinic. Sophomore year.**

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year.

Lectures and conferences on the theory and practice of periodontology and periodontal histopathology.

Periodontology 253—Periodontia clinic. Senior year.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY**Pharmacology 150—Pharmacology. Sophomore year.**

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY**Physiology 150—Mammalian physiology. Freshman year.**

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY**Prosthetics 105—Crown and bridge lectures and technique. Sophomore year.**

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year.

Lectures on the clinical procedures in crown and bridgework.

Prosthetics 206—Crown and bridge clinic. Junior year.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychiatry for the dentist. Sophomore year.

Lectures on mental hygiene and general principles involved in the field of psychiatry. The development and organization of the personality. The effects of emotional problems, in the development of psychological symptoms, and psychosomatic disorders. General considerations in psychotherapy.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year.

Lectures, readings, and discussions on topics relative to oral radiology.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year.

Lectures, seminars, and basic principles of general surgery.

Surgery 270A—Oral surgery. Sophomore year.

Lectures and seminars on local anesthesia and removal of teeth.

Surgery 270B—Oral surgery. Junior year.

Demonstrations, lectures, and clinical practice in local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics, jurisprudence, and practice management. Senior year.

Lecture and conference course on dental ethics, jurisprudence, economics, office conduct, and practice management.

Theory and Practice 283—Dental history. Senior year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

Theory and Practice 285—Comprehensive case. Senior year.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment-planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

Formerly *Pharmacology 250*.

Theory and Practice 287—Dental history. Freshman year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy: One of the following three: Stedman, Gould, Dorland, or American, *Medical Dictionary*; Cunningham, *Manual of Practical Anatomy*, Vols. II and III; mimeographed *Dissecting Directions*; one of the following four: Grant, *Atlas of Anatomy*; Truex and Kellner, *Detailed Atlas of the Head and Neck*; Spalteholz, *Hand Atlas of Human Anatomy*; or Anson, *Atlas of Human Anatomy*.

APPLIED ANATOMY: Shapiro, *Applied Anatomy of the Head and Neck* (2d ed.).

EMBRYOLOGY: One of the following three: Arey, *Developmental Anatomy*; Hamilton, *Human Embryology*; or Patten, *Human Embryology*.

MICROSCOPIC ANATOMY: Bailey, *Textbook of Histology* (12th ed.); mimeographed laboratory manual.

NEUROANATOMY: Strong and Elywn, *Human Neuroanatomy*; mimeographed laboratory manual.

ORAL HISTOLOGY AND EMBRYOLOGY: Orban, *Oral Histology and Embryology*; Diamond, *Dental Anatomy*.

BIOCHEMISTRY: Harrow, *Textbook of Biochemistry* (5th ed.); Karshan, *Laboratory Manual of Biochemistry for Dental Students*.

DENTAL ETHICS AND PRACTICE MANAGEMENT: McGehee and Walker, *Dental Practice Management*.

DENTAL THERAPEUTICS: Council on Therapeutics, American Dental Association, *Accepted Dental Remedies*; McGehee and Green, *Pharmacology and Pharmacotherapeutics for Dentists*.

DIAGNOSIS: Ziskin *et al.*, *Differential Diagnosis* (1st ed.); Ziskin, *Pulp Symptomatology* (1943 ed.); Thoma, *Oral Pathology* (3d ed.).

MEDICINE: Yater, *Fundamentals of Internal Medicine* (3d rev. ed.).

MICROBIOLOGY: Jordan and Burrows, *Textbook of Bacteriology* (15th ed.); Laboratory Manual in Microbiology and Immunology.

OPERATIVE DENTISTRY: Black, *Operative Dentistry*, Vols. II and III; *Operative Dentistry Syllabus*; Grossman, *Root Canal Therapy*.

ORAL PATHOLOGY: Thoma, *Oral Pathology* (3d ed.); or Kronfeld, *Histopathology of the Teeth* (3d ed.).

ORTHODONTICS: Salzman, *Principles of Orthodontics*.

PATHOLOGY: One of the following four: Boyd, *Textbook of Pathology*; Karsner, *Textbook of Pathology*; Moore, *Textbook of Pathology*; or *Anderson's Pathology*.

PEDODONTICS: McBride, *Juvenile Dentistry* (4th ed. or later).

PERIODONTOLOGY: Goldman, *Periodontia*.

PHARMACOLOGY: Goodman and Gilman, *Pharmacological Basis of Therapeutics* (1951).

PHYSIOLOGY: One of the following six: Wiggins, *Physiology in Health and Disease* (5th ed.); Fulton, *Textbook of Physiology* (16th ed.); Starling, *Human Physiology* (10th ed.); Best and Taylor, *Physiological Basis of Medical Practice* (1950); Bard, *Macleod's Physiology in Modern Physiology* (9th ed.); or Houssay, *Human Physiology*; and *Physiology Laboratory Manual*.

PROSTHETIC DENTISTRY: Skinner, *Science of Dental Materials*; Swenson, *Complete Dentures*; Tylman, *Crown and Bridge Prosthesis*; United States Government Printing Office, *Physical Properties of Dental Materials*; Young *et al.*, *Syllabus on Complete Dentures*.

PSYCHIATRY: Strecker, *Fundamentals of Psychiatry* (4th ed.).

RADIOLOGY: McCall and Wald, *Clinical Dental Roentgenology* (3d ed.).

SURGERY: Berger, *Principles and Technique of Oral Surgery*; Berger, *Principles and Technique of the Removal of Teeth*; Parker, *Synopsis of Traumatic Injuries of the Face and Jaw*.

SURGICAL PROSTHESIS: O. E. Beder, *Surgical and Maxillofacial Prosthesis* (1st ed.).

STUDENT ORGANIZATIONS

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the Office of the Registrar, 315 University Hall.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of the use of names in which the name of the University is embodied or suggested and the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 per cent of the members of the graduating Senior class, on the basis of scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based on scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

FACILITIES

LIBRARY

The Medical Library occupies part of the three lower floors in the College of Physicians and Surgeons. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works and through its unique bibliographic service.

The Library contains approximately one hundred and sixty thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than eighteen hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of dentistry. The main collection is housed in Butler Library; special and departmental collections are located in various other buildings on the campus. They

include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons. Books may be borrowed for home use.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium.—The Gymnasium is situated on Morningside Heights and is open daily, except Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium, baths, and private lockers. A service fee of \$1.00 per session (Winter, Spring, or Summer) is charged to each student using the facilities of the Gymnasium without formal registration in physical education courses.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service in Room 2-220 of the Vanderbilt Clinic. In addition, the physician-in-charge of the Health Service is available to attend ill students if they reside in the immediate vicinity of the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University is assisted by three religious counselors: the Counselor to Protestant Students, the Counselor to Roman Catholic students, and the Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves with the schedules, which are conveniently posted.

There are a number of student religious organizations to which the Chaplain and counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

Residence Halls Announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia Univer-

sity, New York 27, N.Y., or (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, near the campus, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write to International House, 500 Riverside Drive, New York 27, N.Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Three Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University and are eligible for reappointment for no more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for no more than three additional years. The annual stipend is \$1,500. Applications should be submitted on or before February 20 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 14.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to the student

of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT LOANS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

OFFICERS OF INSTRUCTION

- HAROLD ALEXANDER ABRAMSON *Assistant Clinical Professor of Physiology*
A.B., Columbia, 1920; M.D., 1923
- THOMAS HUNTER ALLEN *Assistant Professor of Physiology*
A.B., Iowa, 1936; Ph.D., 1941
- FRANZ ALTMANN *Associate Clinical Professor of Otolaryngology*
M.D., Vienna, 1925
- VIRGINIA APGAR *Professor of Anesthesiology*
A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933
- EDMUND APPLEBAUM *Associate Professor of Dental Anatomy*
D.D.S., New York College of Dentistry, 1922
- HOWARD ARDEN *Assistant Professor of Dentistry*
B.S., Fordham, 1943; D.D.S., Columbia, 1946
- HERBERT D. AYERS, JR. *Assistant Clinical Professor of Dentistry*
A.B., Columbia, 1929; D.D.S., Columbia, 1931
- MARGARET W. BARNARD *Associate Professor of Public Health Practice*
A.B., Smith, 1917; M.D., Cornell, 1923; D.P.H., Johns Hopkins, 1935
- HENRY ARTHUR BARTELS *Assistant Professor of Oral Pathology*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927
- OSCAR E. BEDER *Assistant Professor of Dentistry*
B.S., Rutgers, 1936; D.D.S., Columbia, 1941
- FRANK E. BEUBE *Associate Clinical Professor of Dentistry*
L.D.S., D.D.S., Toronto, 1930
- HAROLD W. BROWN *Associate Dean (Public Health); Director,
School of Public Health; Professor of Parasitology*
A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936
- JACK BUDOWSKY *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1943
- THEODORE BUNDRANT *Assistant Clinical Professor of Dentistry*
D.D.S., Howard, 1929
- LESTER RICHARD CAHN *Associate Professor of Oral Pathology*
D.D.S., New York College of Dentistry, 1918
- EDWARD A. CAIN, JR. *Assistant Professor of Dentistry*
B.S., Fordham, 1942; D.D.S., Columbia, 1945
- LOUIS J. CIZEK *Assistant Professor of Physiology*
B.S., Fordham, 1937; M.D., Columbia, 1941
- E. GURNEY CLARK *Professor of Epidemiology*
A.B., Vanderbilt, 1927; M.D., 1931; M.P.H., Johns Hopkins, 1936; D.P.H., 1944
- HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1914

- LOUIS ALEXANDER COHN *Assistant Clinical Professor of Dentistry*
D.D.S., Pennsylvania, 1928
- ROBERT W. COON *Assistant Professor of Pathology*
B.S., North Dakota, 1942; M.D., Rochester, 1944
- WILFRED MONROE COPENHAVER *Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925
- JOSEPH ANTHONY CUTTITA *Assistant Professor of Dentistry*
A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (*hon.*), 1931
- ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917
- EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925
- JOHN WILLIAM FERTIG *Professor of Biostatistics*
A.B., Ursinus, 1931; Ph.D., Minnesota, 1935
- MORRIS FIERSTEIN *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1921
- JOSEPH E. FLYNN *Associate Professor of Pathology*
A.B., Columbia (Iowa), 1933; M.D., Iowa, 1938
- LEWIS FOX *Assistant Clinical Professor of Dentistry*
D.D.S., Maryland, 1927
- HARRY ALLEN GALTON *Associate Clinical Professor of Dentistry*
D.D.S., Columbia, 1932
- ALFRED GILMAN *Professor of Pharmacology*
B.S., Yale, 1928; Ph.D., 1931
- LEONARD J. GOLDWATER *Professor of Occupational Medicine*
A.B., Michigan, 1924; M.D., New York University, 1928; Med.Sc.D., Columbia, 1937; M.S.P.H., 1941
- JOHN E. GORRELL *Associate Professor of Hospital Administration*
B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930
- ROBERT GOTTSEGEN *Assistant Professor of Dentistry*
A.B., Michigan, 1939; D.D.S., Columbia, 1943
- MAGNUS INGSTRUP GREGERSEN *Dalton Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930
- ROBERT E. HERLANDS *Assistant Professor of Dentistry*
A.B., Columbia, 1941; D.D.S., 1944
- MAURICE J. HICKEY *Associate Dean (Dental and Oral Surgery);*
Professor of Oral Surgery
D.M.D., Harvard, 1932; M.D., Columbia, 1937
- GEORGE W. HINDELS *Assistant Clinical Professor of Dentistry*
M.D., Vienna, 1938; D.D.S., Columbia, 1943

- LEONARD HIRSCHFELD *Assistant Clinical Professor of Dentistry*
A.B., Columbia, 1941; D.D.S., Columbia, 1943
- HOUGHTON HOLLIDAY *Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917; D.D.S. (*hon.*), Montreal, 1945
- IRVIN LELAND HUNT, JR. *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1929
- ALVIN R. JACOBSON *Assistant Professor of Sanitary Science*
B.S., North Dakota, 1935; M.S., 1937; Ph.D., Iowa, 1941
- ELVIN A. KABAT *Professor of Microbiology*
B.S., College of the City of New York, 1932; A.M., Columbia, 1934; Ph.D., 1937
- MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925
- BARNET M. LEVY *Professor of Dentistry*
A.B., Pennsylvania, 1938; D.D.S., 1942; M.S., Virginia, 1944
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914
- GEORGE FRANK LINDIG *Associate Clinical Professor of Dentistry*
D.D.S., Minnesota, 1924
- JOHN J. LUCCA *Assistant Professor of Dentistry*
A.B., New York University, 1941; D.D.S., Columbia, 1947
- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921
- CLARE K. MADDEN *Assistant Clinical Professor of Dentistry*
D.D.S., Michigan, 1923
- WILLIAM J. MILLER *Assistant Clinical Professor of Dentistry*
A.B., New York University, 1940; D.D.S., Columbia, 1943
- SAUL MISHELOFF *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1932
- WILLIAM LEO NASTUK *Assistant Professor of Physiology*
B.S., Rutgers, 1939; Ph.D., 1945
- ALVIN S. NATHAN *Assistant Clinical Professor of Dentistry*
B.S., New York University, 1935; A.M., 1938; D.D.S., Columbia, 1936
- JOHN LESTER NICKERSON *Professor of Physiology*
B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1935
- CARL REUBEN OMAN *Professor of Dentistry*
D.D.S., Minnesota, 1914
- ARMAND OPPENHEIMER *Assistant Clinical Professor of Dentistry*
A.B., College of the City of New York, 1926; B.S., Columbia, 1927; D.D.S., 1929
- DOUGLAS BURNETT PARKER *Clinical Professor of Oral Surgery*
M.D., Long Island College of Medicine, 1912; D.D.S., Pennsylvania, 1914
- MAX A. PLEASURE *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1928; M.S.P.H., Columbia, 1941

- WILLARD COLE RAPPELEYE *Dean, Faculty of Medicine; Vice President in Charge of Medical Affairs; Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (*hon.*), Yale, 1922; Sc.D., Trinity (Conn.), 1939; Rutgers, 1949; Med.Sc.D., Women's Medical College of Pennsylvania, 1950
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927
- WALTER STANTON ROOT *Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930
- HARRY M. ROSE *John E. Borne Professor of Medical and Surgical Research*
A.B., Yale, 1928; M.D., Cornell, 1932
- SOLOMON NATHAN ROSENSTEIN *Associate Professor of Dentistry*
B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930
- WILLIAM J. SAVOY *Assistant Clinical Professor of Dentistry*
B.S., Manhattan, 1931; D.D.S., Columbia, 1935
- SAUL SCHLUGER *Assistant Clinical Professor of Dentistry*
D.D.S., Louisville, 1931
- JOSEPH SCHROFF *William Carr Professor of Oral Surgery*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922
- BEATRICE C. SEEGAL *Associate Professor of Microbiology*
A.B., California, 1918; A.M., 1921; M.D., Johns Hopkins, 1924
- JOSEPH SERONDE *Assistant Professor of Pathology*
B.S., Yale, 1938; M.D., 1942
- HARRY H. SHAPIRO *Assistant Professor of Anatomy*
D.M.D., Tufts, 1918
- HAROLD SHERMAN *Assistant Clinical Professor of Dentistry*
B.S., College of the City of New York, 1935; D.D.S., Michigan, 1946
- MAURICE E. SHILS *Assistant Professor of Nutrition*
A.B., Johns Hopkins, 1937; Sc.D., 1940
- WILLIAM H. SILVERSTEIN *Assistant Clinical Professor of Dentistry*
D.D.S., Maryland, 1937
- GEORGE K. SMELSER *Associate Professor of Anatomy*
A.B., Earlham, 1929; Ph.D., Chicago, 1932
- GILBERT PERCIVAL SMITH *Professor of Dentistry*
D.D.S., Minnesota, 1927
- HARRY PRATT SMITH *Delafield Professor of Pathology*
A.B., California, 1916; M.S., 1918; M.D., 1921
- LEO STERN, SR. *Clinical Professor of Dentistry*
D.D.S., New York College of Dentistry, 1912
- WELLINGTON B. STEWART *Assistant Professor of Pathology*
B.S., Notre Dame, 1942; M.D., Rochester, 1945
- FRANCES A. STOLL *Associate Professor of Dental Hygiene*
R.D.H., Columbia, 1934; B.S., 1944; A.M., 1945; Ed.D., 1949

- LEWIS RIDDELL STOWE *Professor of Dentistry*
D.D.S., Minnesota, 1916
- DAVID TANCHESTER *Clinical Professor of Dentistry*
D.D.S., New York University, 1921
- WILLIAM A. THEMANN *Assistant Clinical Professor of Dentistry*
D.D.S., Columbia, 1927
- ARTHUR CRANSTON TOTTEN *Professor of Dentistry*
D.D.S., Pennsylvania, 1926
- HARRY BENJAMIN VAN DYKE *Hosack Professor of Pharmacology*
B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923
- WILLIAM WELCH WALCOTT *Assistant Professor of Physiology*
A.B., Yale, 1933; Ph.D., Columbia, 1944
- SHIH-CHUN WANG *Associate Professor of Physiology*
B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940
- EVELYN WITOL *Assistant Clinical Professor of Dentistry*
D.M.D., Tufts, 1945
- EDWARD VICTOR ZEGARELLI *Associate Professor of Dentistry*
A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942
-
- JACK ALLOY, D.D.S. *Instructor in Dentistry*
- NORMAN ALPERT, Ph.D. *Instructor in Physiology*
- BERT BALLIN, D.D.S. *Assistant in Dentistry*
- HERBERT BARTELSTONE, D.D.S. *Assistant in Dentistry*
- CARLISLE C. BASTIAN, D.D.S. *Lecturer in Dentistry*
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- ROBERT CYRIL DEVINE, D.D.S. *Instructor in Dentistry*
- JOHN J. DOLCE, D.D.S. *Instructor in Dentistry*

¹ On leave 1952-1953 (military service).

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EVALD LINDER	<i>Instructor in Dental Radiology Technique</i>
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IRWIN D. MANDEL, D.D.S.	<i>Instructor in Dentistry</i>

¹ On leave 1952-1953 (military service).

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¹ STEVEN SCRIVANI, D.D.S.	<i>Assistant in Dentistry</i>
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HERBERT F. SILVERS, D.D.S.	<i>Research Associate in Dentistry</i>
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LEO STERN, JR., D.D.S.	<i>Instructor in Dentistry</i>
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CLIFFORD L. WHITMAN, D.D.S.	<i>Instructor in Dentistry</i>
FREDERICK F. YONKMAN, Ph.D., M.D.	<i>Lecturer in Pharmacology</i>
² LENARD ZUCKERMAN, D.M.D.	<i>Assistant in Dentistry</i>

¹ On leave 1952-1953 (military service).² On leave 1952-1953.

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HOUGHTON HOLLIDAY	JOSEPH SCHROFF
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ALBIN R. SEIDEL, <i>Consultant</i>	

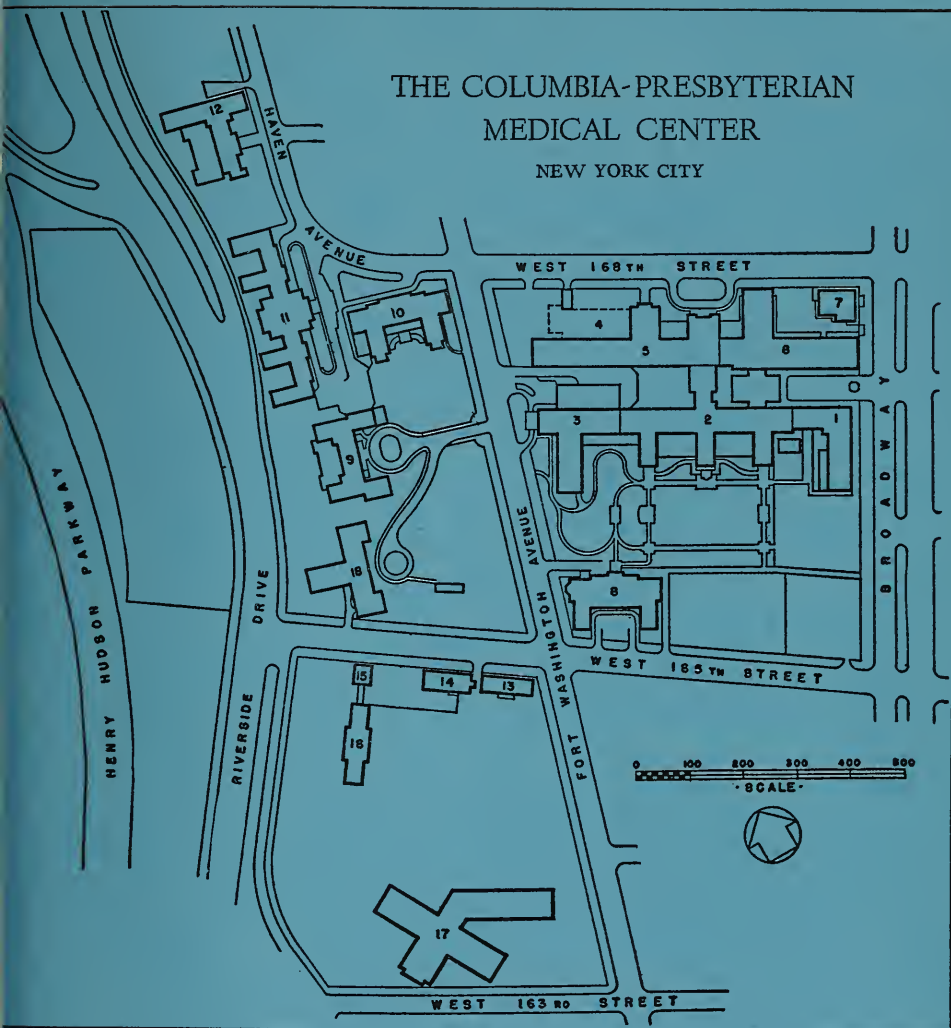
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 STANLEY L. LANE, M.D., D.D.S., *Assistant Attending Surgeon*

¹ On leave 1952-1953 (military service).

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

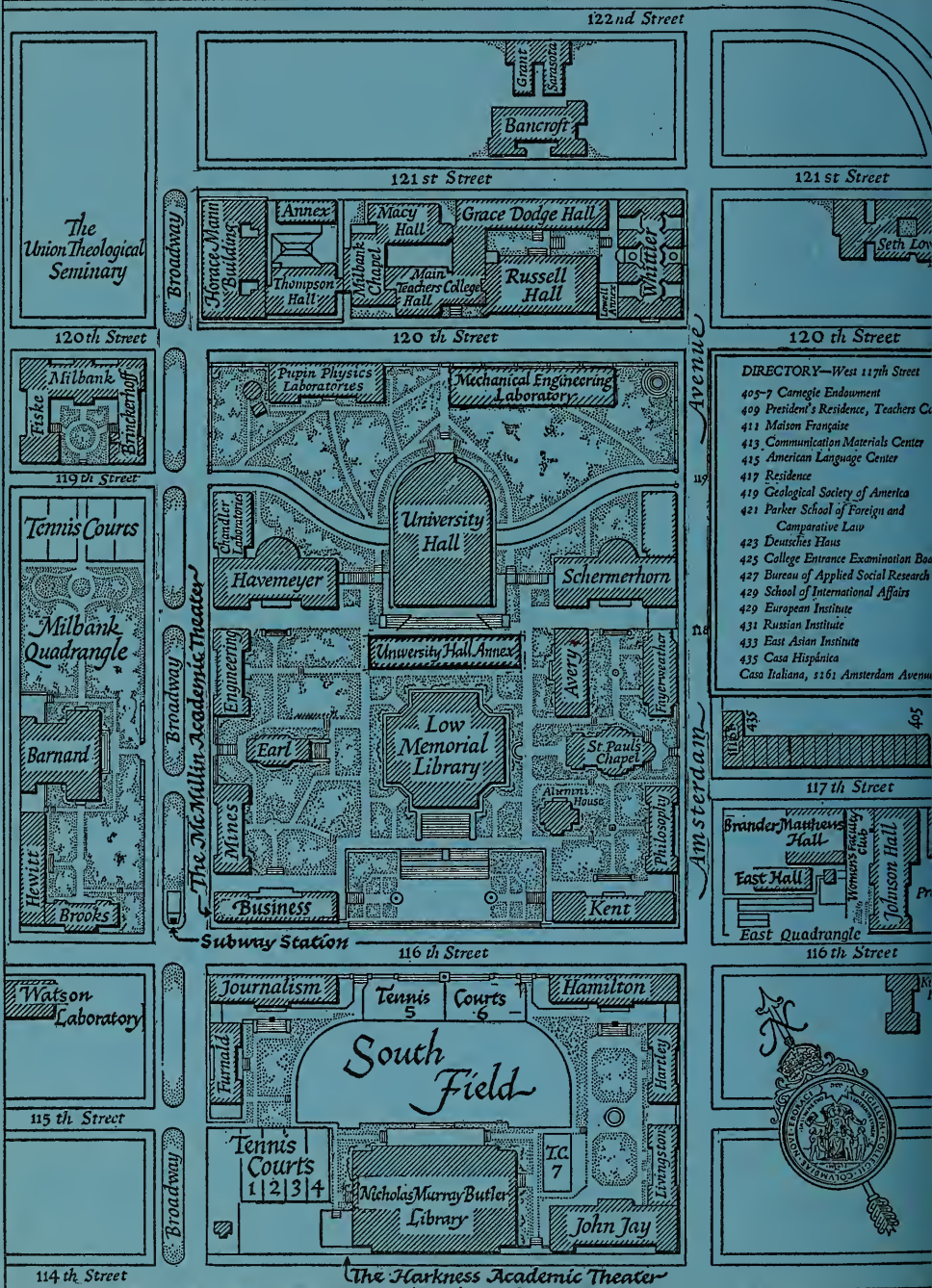
NEW YORK CITY



- | | |
|--|---|
| 1. Babies Hospital | 8. Institute of Ophthalmology |
| 2. Presbyterian Hospital | 9. Maxwell Hall |
| Sloane Hospital | 10. Neurological Institute |
| New York Orthopaedic Hospital | 11. New York State Psychiatric Institute and Hospital |
| 3. Harkness Pavilion | 12. Bard Hall |
| 4. Power plant | 13, 16. Storage |
| 5. College of Physicians and Surgeons | 14. Shops |
| 6. Vanderbilt Clinic | 15. Housing |
| School of Dental and Oral Surgery | 17. Francis Delafield Hospital, New York City Department of Hospitals |
| 7. Washington Heights Health and Teaching Center, New York City Department of Health | 18. Edward S. Harkness Memorial Hall |
| School of Public Health | |

MORNINGSIDE HEIGHTS

Plan of Buildings and Grounds



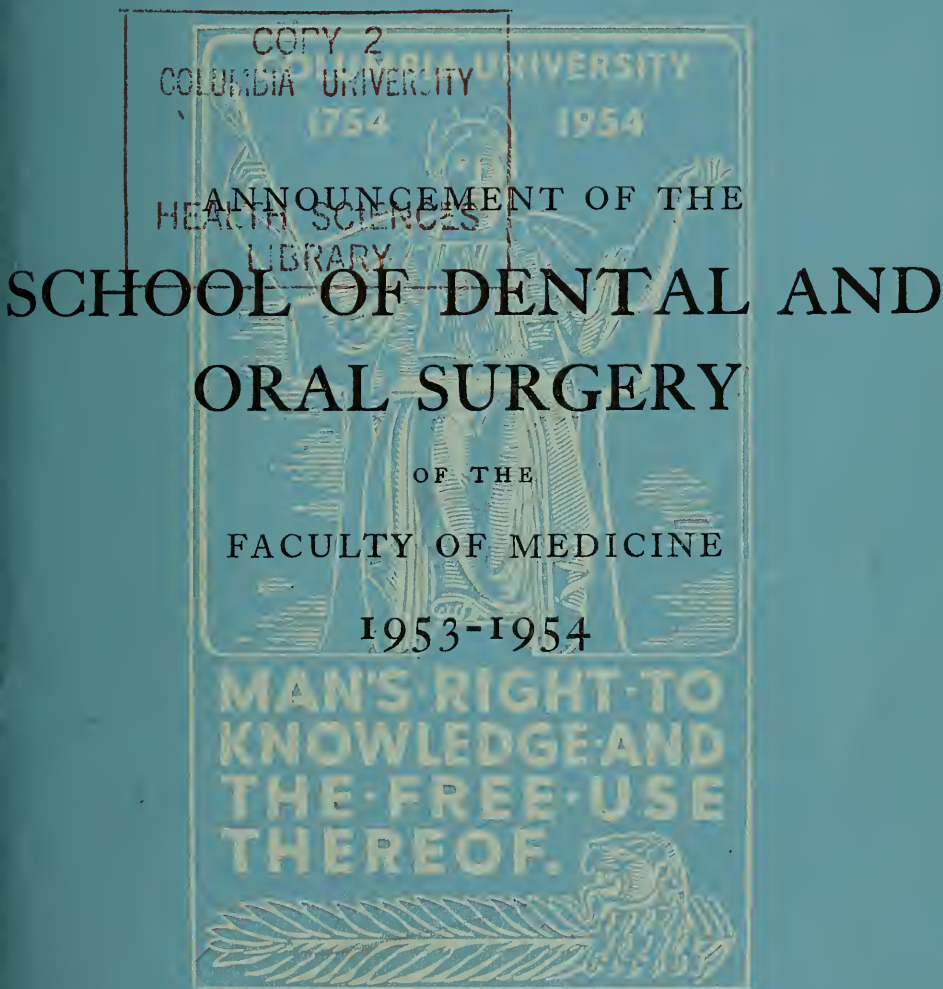
- DIRECTORY—West 117th Street**
- 405-7 Carnegie Endowment
 - 409 President's Residence, Teachers College
 - 411 Maison Française
 - 413 Communication Materials Center
 - 415 American Language Center
 - 417 Residence
 - 419 Geological Society of America
 - 421 Parker School of Foreign and Comparative Law
 - 423 Deutsches Haus
 - 425 College Entrance Examination Board
 - 427 Bureau of Applied Social Research
 - 429 School of International Affairs
 - 429 European Institute
 - 431 Russian Institute
 - 433 East Asian Institute
 - 435 Casa Hispanica
 - Casa Italiana, 1161 Amsterdam Avenue



COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fifty-third Series, No. 23

June 20, 1953



1754 — THE BICENTENNIAL YEAR — 1954

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET • NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-third Series, No. 23

June 20, 1953

Issued at Columbia University, Morningside Heights, New York 27, N.Y. weekly from January for forty-six consecutive issues. Reentered as second-class matter August 15, 1952, at the Post Office at New York, N.Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N. Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 6,000—1953

Communications

All communications regarding the School of Dental and Oral Surgery, applications for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.; telephone: Wadsworth 3-2500.

Announcements

The Announcements of each College or School and of the Summer Session may be obtained without charge by writing to the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.

CONDENSED ACADEMIC CALENDAR

1953

- September 10 Thursday, through September 12, Saturday. Registration, including payment of fees.
- September 14 Monday. Classes begin.
- November 3 Tuesday. Election Day. Holiday.
- November 26 Thursday. Thanksgiving Day. Holiday.
- November 28 Saturday. End of first trimester.
- November 30 Monday. Beginning of second trimester.
- December 21 Monday, through

1954

- January 3 Sunday. Christmas Holidays.
- February 12 Friday. Lincoln's Birthday. Not a University Holiday.
- February 22 Monday. Washington's Birthday. Holiday.
- February 27 Saturday. End of second trimester.
- March 1 Monday. Beginning of third trimester.
Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.
- April 11 Sunday, through April 18, Sunday. Easter Holidays.
- May 22 Saturday. Last day of classes.
- May 24 Monday, through May 28, Friday. Final examinations.
- May 31 Monday. Memorial Day. Holiday.
- June 1 Tuesday. Conferring of degrees.

June 2 Band Hall

mm. State Boards

June 15, 1954

State Boards

Practical Examination

Feb 11-12 1954

May 24, 25 1954

Sept 16, 17, 1954

Feb 11 1955

Registration 1954

Sept. 7, 8, 1954

Closes again

Sept 12, 1954

CONDENSED ACADEMIC CALENDAR

		1954
	7 <i>Tuesday</i>	1953 8 <i>wednesday</i>
September	10	Thursday, through September 12, Saturday. Registration, including payment of fees.
September	13	
September	14	Monday. Classes begin.
November	3	Tuesday. Election Day. Holiday.
November	26	Thursday. Thanksgiving Day. Holiday.
November	28	Saturday. End of first trimester.
November	30	Monday. Beginning of second trimester.
December	21	Monday, through
		1954 1955
January	3	Sunday. Christmas Holidays.
February	12	<i>Saturday</i> Friday. Lincoln's Birthday. Not a University Holiday.
February	22	<i>Wednesday</i> Monday. Washington's Birthday. Holiday.
February	27	Saturday. End of second trimester.
March	4	Monday. Beginning of third trimester.
		Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.
April	14	Sunday, through April 18, Sunday. Easter Holidays.
May	22	Saturday. Last day of classes.
May	24	Monday, through May 28, Friday. Final examinations.
May	31	Monday. Memorial Day. Holiday.
June	1	Tuesday. Conferring of degrees.

D. H. classes begin Thurs. 9/1/54

FACULTY OF MEDICINE -

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AT SCHOOL OF DENTAL AND ORAL SURGERY

ANNA A. BERHOWSKY *Assistant to the Registrar*THOMAS P. FLEMING, M.S. *Librarian*

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education at Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a dental school be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled *A Dental School on University Lines*. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

"Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigation and research to be logically a branch of general medicine."

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this School.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian

Hospital Medical Center. The dental department of the School occupies three floors, a net area of forty thousand square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in medicine, dentistry, public health, and nursing. A committee on dental education, established by University statute, of which a majority is from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery is the chairman, initiates recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years and leads to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University, which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application.—It is desirable that candidates make application during the academic year preceding that for which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y. Every application should be accompanied by a check or money order for five dollars, payable to Columbia University, to cover the cost of processing the application. This fee is not returnable.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the following courses required by the New York State Board of Regents:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of outside work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire college record of each student is carefully examined by the Committee on Admissions in order that those who are judged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance (see page 9).

All applicants will be required to take the Dental Aptitude Tests conducted by the Council on Dental Education at various testing centers throughout the United States and Canada. For further information apply directly to the Division of Aptitude Testing, Council on Dental Education of the American Dental Association, 222 East Superior Street, Chicago 11, Illinois.

COMBINED COURSES

Combined Courses with Columbia College.—Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College.—Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined Courses in Dentistry and Medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one Summer Session.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only with the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees and the University fee are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for the privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed for dental students:

a) University Fee

1. For each Winter or Spring Session or any part thereof, for students enrolled for:

One to four points, inclusive	\$ 5.00
More than four points to nine points, inclusive	10.00
More than nine points	20.00
2. For each Summer Session or any part thereof 7.00
3. For registration as engaged in research only for any period not longer than a Winter or a Spring Session. 20.00

b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments 825.00
 For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

c) Fee for Application

For a degree 20.00

d) Privileges

1. Late registration or late application for a degree or for deficiency or special examinations 3.00
2. Deficiency or special examinations 3.00
3. Renewal of application for any degree 1.00

e) Student Health Service Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.

For all students, per academic year

\$25.00

f) Case Rental

For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments

5.00

g) Rebates

1. The University fee and the fee for application for any degree shall not be subject to rebate.

2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

h) Undue Breakage

While no deposit is required of students to cover laboratory material and ordinary breakage, any unusual amount of breakage will be charged.

Acceptance Fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fee for Processing of Application.—A fee of \$5.00 is charged to every student who applies for admission to the School of Dental and Oral Surgery or the School of Medicine. This fee covers the cost of processing the application.

Fees for Repeated Courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe or variable focus condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1951-1952 and can be accepted as applicable in general for the year 1953-1954 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and University fees	\$ 865	\$ 865
Miscellaneous fees	35	35
Room	330	186
Board	600	500
Books	150	115
Instruments (see below)	350	350
Laundry	75	35
	<hr/> \$2,405	<hr/> \$2,086

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is registered.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems

proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

I. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under whom he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in the school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement.

II. Recommended for readmission to the same class.

III. Recommended neither for advancement nor for readmission to the same class:

a) Because of failure.

b) Because they fall under paragraph 2 of requirements for promotion.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of

\$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee of \$20 is again payable.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of dental hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Wherever possible, a personal interview is required before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	<i>Semester Hours</i>
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits of the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Director, Courses for Dental Hygienists, 630 West 168th Street, New York 32, N.Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1953-1954 short refresher courses will be offered in various subjects.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes

not less than thirty credits of special work in the clinical and basic science branches of dentistry approved by the Dean. At present, an organized sixteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in oral diagnosis and roentgenology, oral surgery, orthodontics, pedodontics, and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the residence requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained by writing to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 169th Street, New York 32, N.Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, N.Y. All applications for admission to the examinations should be completed at least thirty days before the examinations begin.

The State Department of Education will admit conditionally to the examination in anatomy, physiology and hygiene, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared their intention of becoming citizens in accordance with the law, who have completed the prescribed preliminary education requirement, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1953-1954

<i>Subjects*</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FIRST YEAR			
Anatomy			
Embryology 152 <i>F</i>	18		18
Gross 151 <i>FS</i>	50	222	272
Microscopic 150 <i>FS</i>	42	126	168
Neuro 153 <i>T</i>	30	36	66
Oral 101 <i>ST</i>	19	82	101
Biochemistry 150 <i>ST</i>	38	117	155
Histology, Oral 115 <i>ST</i>	25	52	77
Physiology 150 <i>FS</i>	56	152	208
Theory and Practice			
Dental History 287 <i>T</i>	10		10
			1,075

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

<i>Subjects*</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
SECOND YEAR			
Crown and Bridge 105 <i>ST</i>	20	184	204
Dental Materials 126 <i>FS</i>	10	56	66
Microbiology 151 <i>F</i> and 152 <i>F</i>	43	99	142
Operative Dentistry 131 <i>FST</i>	20	187	207
Pathology 150 <i>FS</i>	54	141	195
Periodontology 151 <i>T</i>	10	44	54
Pharmacology 150 <i>ST</i>	55	33	88
Prosthetic Dentistry 157 <i>FST</i>	20	198	218
Psychiatry 150 <i>S</i>	11		11
Surgery, Principles 168 <i>ST</i>	10		10
Surgery, Oral 270A <i>ST</i>	10		10
Theory and Practice Therapeutics 286 <i>T</i>	10		10
			1,215
THIRD YEAR			
Anatomy, Applied 252 <i>S</i>	10		10
Crown and Bridge Technique 205 <i>F</i>		96	96
Clinic 206 <i>ST</i>	10	114	124
Applied Occlusal Dynamics 212 <i>T</i>		30	30
Diagnosis 212 <i>FST</i>	30	25	55
Operative Dentistry 233 <i>FST</i>	10	276	286
Orthodontics 241 <i>F</i>	20	60	80
Pathology, Oral 246 <i>FS</i>	20	60	80
Periodontology 251 <i>S</i>		30	30
Practice of Medicine 278 <i>ST</i>	40	22	62
Prosthetic Dentistry 260 <i>FST</i> and 261 <i>FST</i>	20	177	197
Radiology 267 <i>F</i>	10	15	25
Surgery, Oral 270B <i>F</i>	10	20	30
			1,105
FOURTH YEAR			
Crown and Bridge 210 <i>FST</i> and 211 <i>FST</i>	10	165	175
Diagnosis 213 <i>F</i>		25	25
Diagnosis Seminar 214 <i>S</i>		30	30
Diagnosis 215 <i>T</i> (continuation of 214)	10		10
Orthodontics 242 <i>FST</i>		30	30
Operative Dentistry 234 <i>FST</i>	20	305	325
Pedodontics 202 <i>FST</i>	10	87	97
Periodontology 252 <i>FS</i> and 253 <i>FS</i>	20	30	50
Prosthetic Dentistry 263 <i>FST</i> and 264 <i>FST</i>	10	165	175
Public Health 222 <i>S</i>	20		20
Surgery, Oral 272 <i>FST</i>	40	60	100
Surgery Seminar 274 <i>T</i>	10		10
Surgical Prosthesis 265 <i>T</i>		30	30
Theory and Practice Dental History 283 <i>F</i>	10		10
Ethics, Jurisprudence and Practice Man- agement 281 <i>FST</i>	30		30
Comprehensive 285 <i>T</i>			
			1,117

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow.

The outline on pages 14 and 15 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115—Oral histology and embryology. Freshman year.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year.

Lectures and demonstration dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnostics 212—Dental diagnosis lectures and clinic. Junior year.

Lectures and clinical practice in diagnostic procedures, comprehensive diagnosis, pulp symptomatology, radiographic interpretation, and diagnosis of lesions and diseases of the oral cavity.

Diagnosis 213—Dental diagnosis clinic. Senior year.

Continuation of clinic of *Diagnosis 212*.

Diagnosis 214—Diagnosis seminar. Senior year.

Discussion and differential diagnosis of diseases of the oral cavity.

Diagnosis 215—Diagnosis seminar. Senior year.

Continuation of *Diagnosis 214*.

MEDICINE**Medicine 278—General survey of medicine. Junior year.**

Lectures and conferences covering phases of general medicine; also clinics in which patients are studied for conspicuous manifestations of systemic conditions and their significance.

MICROBIOLOGY**Microbiology 151—General medical microbiology and immunology. Sophomore year.**

Lectures, conferences, and laboratory.

Microbiology 152—Principles of microbiology, immunology, and epidemiology. Sophomore year.

This course is identical with *Microbiology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

OPERATIVE DENTISTRY**Operative Dentistry 131—Elements of operative dentistry. Sophomore year.**

Lectures on the fundamentals of operative dentistry, including the etiology of dental caries and the biological approach to the technical procedures in the filling of teeth.

Operative Dentistry 233—Operative clinical practice. Junior year.

Introduction to clinical practice. Lectures on the application of operative fundamentals to clinical practice. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced clinical practice. Senior year.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including endodontia.

ORTHODONTICS**Orthodontics 241—Principles of orthodontics. Junior year.**

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention of malocclusion in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time is devoted to the designing and constructing of removable appliances used as space maintainers and habit breakers and to correcting tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Senior year.

Clinical orthodontics.

PATHOLOGY**Pathology 150—General and special pathology. Sophomore year.**

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS**Pedodontics 202—Pedodontics lectures and clinic. Senior year.**

Lectures and conferences on operative dental procedures for children and management of child dental patients.

PERIODONTOLOGY**Periodontology 151—Periodontia clinic. Sophomore year.**

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year.

Lectures and conferences on the theory and practice of periodontology and periodontal histopathology.

Periodontology 253—Periodontia clinic. Senior year.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY**Pharmacology 150—Pharmacology. Sophomore year.**

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY**Physiology 150—Mammalian physiology. Freshman year.**

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY**Prosthetics 105—Crown and bridge lectures and technique. Sophomore year.**

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year.

Lectures on the clinical procedures in crown and bridgework.

Prosthetics 206—Crown and bridge clinic. Junior year.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology.

Prosthetics 260—Prosthetic lectures. Junior year.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year.

A series of lectures on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY**Psychiatry 150—Psychiatry for the dentist. Sophomore year.**

Lectures on mental hygiene and general principles involved in the field of psychiatry. The development and organization of the personality. The effects of emotional problems, in the development of psychological symptoms, and psychosomatic disorders. General considerations in psychotherapy.

PUBLIC HEALTH**Public Health 222—Principles of public health. Senior year.**

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY**Radiology 267—Oral radiology practice. Junior year.**

Lectures, readings, and discussions on topics relative to oral radiology. Practice in exposing, processing, and mounting dental radiographs.

SURGERY**Surgery 168—Principles of surgery. Sophomore year.**

Lectures, seminars, and basic principles of general surgery.

Surgery 270A—Oral surgery. Sophomore year.

Lectures and seminars on local anesthesia and removal of teeth.

Surgery 270B—Oral surgery. Junior year.

Demonstrations, lectures, and clinical practice in local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics, jurisprudence, and practice management. Senior year.

Lecture and conference course on dental ethics, jurisprudence, economics, office conduct, and practice management.

Theory and Practice 283—Dental history. Senior year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

Theory and Practice 285—Comprehensive case. Senior year.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment-planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

Theory and Practice 287—Dental history. Freshman year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy: One of the following three: Stedman, Gould, Dorland, or American, *Medical Dictionary*; Cunningham, *Manual of Practical Anatomy*, Vols. II and III; mimeographed *Dissecting Directions*; one of the following four: Grant, *Atlas of Anatomy*; Truex and Kellner, *Detailed Atlas of the Head and Neck*; Spalteholz, *Hand Atlas of Human Anatomy*; or Anson, *Atlas of Human Anatomy*.

APPLIED ANATOMY: Shapiro, *Applied Anatomy of the Head and Neck* (2d ed.).

EMBRYOLOGY: One of the following three: Arey, *Developmental Anatomy*; Hamilton, *Human Embryology*; or Patten, *Human Embryology*.

MICROSCOPIC ANATOMY: Bailey, *Textbook of Histology* (12th ed.); mimeographed laboratory manual.

NEUROANATOMY: Strong and Elwyn, *Human Neuroanatomy*; mimeographed laboratory manual.

ORAL HISTOLOGY AND EMBRYOLOGY: Orban, *Oral Histology and Embryology*; Diamond, *Dental Anatomy*.

BIOCHEMISTRY: Harrow, *Textbook of Biochemistry* (5th ed.); Karshan, *Laboratory Manual of Biochemistry for Dental Students*.

DENTAL ETHICS AND PRACTICE MANAGEMENT: McGehee and Walker, *Dental Practice Management*.

DENTAL THERAPEUTICS: Council on Therapeutics, American Dental Association, *Accepted Dental Remedies*; McGehee and Green, *Pharmacology and Pharmacotherapeutics for Dentists*.

DIAGNOSIS: Ziskin *et al.*, *Differential Diagnosis*; Ziskin, *Pulp Symptomatology* (1943 ed.); Thoma, *Oral Pathology* (3d ed.).

MEDICINE: Yater, *Fundamentals of Internal Medicine* (3d rev. ed.).

MICROBIOLOGY: Jordan and Burrows, *Textbook of Bacteriology* (15th ed.); Laboratory Manual in Microbiology and Immunology.

OPERATIVE DENTISTRY: Black, *Operative Dentistry*, Vols. II and III; *Operative Dentistry Syllabus*; Grossman, *Root Canal Therapy*.

ORAL PATHOLOGY: Thoma, *Oral Pathology* (3d ed.); or Kronfeld, *Histopathology of the Teeth* (3d ed.).

ORTHODONTICS: Salzman, *Principles of Orthodontics*.

PATHOLOGY: One of the following four: Boyd, *Textbook of Pathology*; Karsner, *Textbook of Pathology*; Moore, *Textbook of Pathology*; or *Anderson's Pathology*.

PEDODONTICS: McBride, *Juvenile Dentistry* (4th ed. or later).

PERIODONTOLOGY: Goldman, *Periodontia*.

PHARMACOLOGY: Goodman and Gilman, *Pharmacological Basis of Therapeutics* (1951).

PHYSIOLOGY: One of the following six: Wiggens, *Physiology in Health and Disease* (5th ed.); Fulton, *Textbook of Physiology* (16th ed.); Starling, *Human Physiology* (10th ed.); Best and Taylor, *Physiological Basis of Medical Practice* (1950); Bard, *Macleod's Physiology in Modern Medicine* (9th ed.); or Houssay, *Human Physiology*; and *Physiology Laboratory Manual*.

PROSTHETIC DENTISTRY: Skinner, *Science of Dental Materials*; Swenson, *Complete Dentures*; Tylman, *Crown and Bridge Prosthesis*; United States Government Printing Office, *Physical Properties of Dental Materials*; Young et al., *Syllabus on Complete Dentures*.

PSYCHIATRY: Strecker, *Fundamentals of Psychiatry* (4th ed.).

RADIOLOGY: McCall and Wald, *Clinical Dental Roentgenology* (3d ed.).

SURGERY: Berger, *Principles and Technique of Oral Surgery*; Berger, *Principles and Technique of the Removal of Teeth*; Parker, *Synopsis of Traumatic Injuries of the Face and Jaw*.

SURGICAL PROSTHESIS: O. E. Beder, *Surgical and Maxillofacial Prosthesis*.

STUDENT ORGANIZATIONS

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the Office of the Registrar, 315 University Hall.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of the use of names in which the name of the University is embodied or suggested and the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 per cent of the members of the graduating Senior class, on the basis of scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based on scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

FACILITIES

LIBRARY

The Medical Library occupies part of the three lower floors in the College of Physicians and Surgeons. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works and through its unique bibliographic service.

The Library contains approximately one hundred and eighty thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than twenty-two hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of dentistry. The main collection is housed in Butler Library; special and departmental collections are located in various other buildings on the campus. They

include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to dentistry and supplement the special collections available in the Medical Library. Books may be borrowed for home use.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium.—The Gymnasium is situated on Morningside Heights and is open daily, except Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium, baths, and private lockers. A service charge for physical education, amounting to one dollar (\$1.00) per session (Winter, Spring, or Summer), is charged each student using the facilities of the University Gymnasium without formal registration in physical education courses. In addition a deposit must be made of two dollars (\$2.00) for a lock, locker, and towel.

STUDENT HEALTH SERVICE

The Student Health Service is located in Room 220, 2nd Floor, Vanderbilt Clinic. Daily office hours are held for sick students. Emergency treatment after 5:00 P.M. and on week ends may be obtained in Admitting Emergency, Vanderbilt Clinic. Students, sick at home, and living within the immediate vicinity of the Medical Center, may contact the Physician-in-Charge of the Health Service. Students requiring hospitalization will be taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University is assisted by three religious counselors: the Counselor to Protestant Students, the Counselor to Roman Catholic students, and the Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves with the schedules, which are conveniently posted.

There are a number of student religious organizations to which the Chaplain and counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

Residence Halls Announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27, N.Y., or (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, near the campus, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write to International House, 500 Riverside Drive, New York 27, N.Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Three Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University and are eligible for reappointment for no more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for no more than three additional years. The annual stipend is \$1,500. Applications should be submitted on or before February 20 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 13.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to the student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT LOANS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

OFFICERS OF INSTRUCTION

- HAROLD A. ABRAMSON, *Assistant Clinical Professor of Physiology*; A.B., Columbia, 1920; M.D., 1923
- THOMAS H. ALLEN, *Associate Professor of Physiology*; A.B., Iowa, 1936; Ph.D., 1941
- FRANZ ALTMANN, *Associate Clinical Professor of Otolaryngology*; M.D., Vienna, 1925
- VIRGINIA APGAR, *Professor of Anesthesiology*; A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933
- EDMUND APPLEBAUM, *Associate Professor of Dental Anatomy*; D.D.S., New York College of Dentistry, 1922
- HOWARD ARDEN, *Assistant Professor of Dentistry*; B.S., Fordham, 1943; D.D.S., Columbia, 1946
- HERBERT D. AYERS, JR., *Assistant Clinical Professor of Dentistry*; A.B., Columbia, 1929; D.D.S., 1931
- MARGARET W. BARNARD, *Associate Professor of Public Health Practice*; A.B., Smith, 1917; M.D., Cornell, 1923; D.P.H., Johns Hopkins, 1935
- HENRY A. BARTELS, *Assistant Professor of Oral Pathology*; B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927
- HERBERT BARTELSTONE, *Assistant Professor of Pharmacology*; B.S., College of the City of New York, 1942; D.D.S., Columbia, 1945
- FRANK E. BEUBE, *Clinical Professor of Dentistry*; I.D.S., D.D.S., Toronto, 1930
- HAROLD W. BROWN, *Associate Dean (Public Health)*; *Director, School of Public Health*; *Professor of Parasitology*; A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936
- JACK BUDOWSKY, *Assistant Clinical Professor of Dentistry*; D.D.S., Columbia, 1943
- THEODORE BUNDRANT, *Assistant Clinical Professor of Dentistry*; D.D.S., Howard, 1929
- LESTER R. CAHN, *Associate Professor of Oral Pathology*; D.D.S., New York College of Dentistry, 1918
- EDWARD A. CAIN, JR., *Associate Professor of Dentistry*; B.S., Fordham, 1942; D.D.S., Columbia, 1945
- NEAL W. CHILTON, *Assistant Professor of Dental Public Health Practice*; B.S., College of the City of New York, 1939; D.D.S., New York University, 1943; M.P.H., Columbia, 1946
- LOUIS J. CIZEK, *Assistant Professor of Physiology*; B.S., Fordham, 1937; M.D., Columbia, 1941
- E. GURNEY CLARK, *Professor of Epidemiology*; A.B., Vanderbilt, 1927; M.D., 1931; M.P.H., Johns Hopkins, 1936; D.P.H., 1944
- HANS T. CLARKE, *Professor of Biochemistry*; B.Sc., London, 1908; D.Sc., 1914
- LOUIS A. COHN, *Associate Clinical Professor of Dentistry*; D.D.S., Pennsylvania, 1928
- ROBERT W. COON, *Assistant Professor of Pathology*; B.S., North Dakota, 1942; M.D., Rochester, 1944
- WILFRED M. COPENHAVER, *Professor of Anatomy*; A.B., Western Maryland, 1921; Ph.D., Yale, 1925
- JOSEPH A. CUTTITA, *Assistant Professor of Dentistry*; A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939
- SAMUEL R. DETWILER, *Professor of Anatomy*; Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (hon.), 1931
- NICHOLAS DISALVO, *Assistant Professor of Physiology*; D.D.S., Columbia, 1945; Ph.D., 1952
- ADOLPH ELWYN, *Associate Professor of Neuroanatomy*; B.S., Columbia, 1915; A.M., 1917
- EARL T. ENGLE, *Professor of Anatomy*; A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925
- JOHN W. FERTIG, *Professor of Biostatistics*; A.B., Ursinus, 1931; Ph.D., Minnesota, 1935
- MORRIS FIERSTEIN, *Associate Clinical Professor of Dentistry*; D.D.S., Columbia, 1921
- JOSEPH E. FLYNN, *Associate Professor of Pathology*; A.B., Columbia (Iowa), 1933; M.D., Iowa, 1938
- LEWIS FOX, *Assistant Clinical Professor of Dentistry*; D.D.S., Maryland, 1927
- HARRY A. GALTON, *Associate Clinical Professor of Dentistry*; D.D.S., Columbia, 1932
- ALFRED GILMAN, *Professor of Pharmacology*; B.S., Yale, 1928; Ph.D., 1931
- LEONARD J. GOLDWATER, *Professor of Occupational Medicine*; A.B., Michigan, 1924; M.D., New York University, 1928; Med.Sc.D., 1937; M.S.P.H., Columbia, 1941
- ROBERT GOTTSEGEN, *Assistant Professor of Dentistry*; A.B., Michigan, 1939; D.D.S., Columbia, 1943
- MAGNUS I. GREGERSEN, *Dalton Professor of Physiology*; A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930
- ROBERT E. HERLANDS, *Associate Professor of Dentistry*; A.B., Columbia, 1941; D.D.S., 1944
- MAURICE J. HICKEY, *Associate Dean (Dental and Oral Surgery)*; *Professor of Oral Surgery*; D.M.D., Harvard, 1932; M.D., Columbia, 1937
- GEORGE W. HINDELS, *Assistant Clinical Professor of Dentistry*; M.D., Vienna, 1938; D.D.S., Columbia, 1943
- LEONARD HIRSCHFELD, *Assistant Clinical Professor of Dentistry*; A.B., Columbia, 1941; D.D.S., 1943
- FRANKLIN HOLLANDER, *Assistant Clinical Professor of Physiology*; B.S., Columbia, 1919; Ph.D., 1923
- HOUGHTON HOLLIDAY, *Professor of Dentistry*; A.B., Minnesota, 1915; D.D.S., 1917; D.D.S. (hon.), Montreal, 1945
- IRVIN L. HUNT, JR., *Associate Professor of Dentistry*; D.D.S., Pennsylvania, 1929
- ALVIN R. JACOBSON, *Associate Professor of Sanitary Science*; B.S., North Dakota, 1935; M.S., 1937; Ph.D., Iowa, 1941
- DOROTHY D. JOHNSON, *Assistant Professor of Anatomy*; A.B., Bates, 1941; A.M., Vassar, 1943; Ph.D., Columbia, 1949
- ELVIN A. KABAT, *Professor of Microbiology*; B.S., College of the City of New York, 1932; A.M., Columbia, 1934; Ph.D., 1937
- MAXWELL KARSHAN, *Associate Professor of Biochemistry*; B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925
- BARNET M. LEVY, *Professor of Dentistry*; A.B., Pennsylvania, 1938; D.D.S., 1942; M.S., Virginia, 1944
- NOLAN D. C. LEWIS, *Professor of Psychiatry*; M.D., Maryland, 1914
- GEORGE F. LINDIG, *Associate Clinical Professor of Dentistry*; D.D.S., Minnesota, 1924
- JOHN J. LUCCA, *Assistant Professor of Dentistry*; A.B., New York University, 1941; D.D.S., Columbia, 1947
- CLARE K. MADDEN, *Assistant Clinical Professor of Dentistry*; D.D.S., Michigan, 1923

- WILLIAM J. MILLER, *Assistant Clinical Professor of Dentistry*; A.B., New York University, 1940; D.D.S., Columbia, 1943
- SAUL MISHELOFF, *Assistant Clinical Professor of Dentistry*; D.D.S., Columbia, 1932
- MELVIN MORRIS, *Assistant Clinical Professor of Dentistry*; B.S., College of the City of New York, 1934; M.A., Columbia, 1937; D.D.S., 1941
- WILLIAM L. NASTUK, *Assistant Professor of Physiology*; B.S., Rutgers, 1939; Ph.D., 1945
- ALVIN S. NATHAN, *Assistant Clinical Professor of Dentistry*; B.S., New York University, 1935; A.M., 1938; D.D.S., Columbia, 1936
- JOHN L. NICKERSON, *Professor of Physiology*; B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1935
- CARL R. OMAN, *Professor of Dentistry*; D.D.S., Minnesota, 1914
- ARMAND OPPENHEIMER, *Assistant Clinical Professor of Dentistry*; A.B., College of the City of New York, 1926; B.S., Columbia, 1927; D.D.S., 1929
- DOUGLAS B. PARKER, *Clinical Professor of Oral Surgery*; M.D., Long Island College of Medicine, 1912; D.D.S., Pennsylvania, 1914
- MAX A. PLEASURE, *Associate Clinical Professor of Dentistry*; D.D.S., Pennsylvania, 1928; M.S.P.H., Columbia, 1941
- WILLARD C. RAPPLEYE, *Dean, Faculty of Medicine; Vice President in Charge of Medical Affairs; Professor of Medical Economics*; A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922; Sc.D., Trinity (*hon.*), 1939; Rutgers (*hon.*), 1949; Med.Sc.D., Women's Medical College of Pennsylvania (*hon.*), 1950
- WILLIAM M. ROGERS, *Assistant Professor of Anatomy*; B.S., Georgia, 1921; Ph.D., Cornell, 1927
- WALTER S. ROOT, *Professor of Physiology*; B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930
- HARRY M. ROSE, *John E. Borne Professor of Medical and Surgical Research*; A.B., Yale, 1928; M.D., Cornell, 1932
- GEORGE ROSEN, *Professor of Public Health Education*; B.S., College of the City of New York, 1930; M.D., Berlin, 1935; Ph.D., Columbia, 1944; M.P.H., 1947
- SOLOMON N. ROSENSTEIN, *Professor of Dentistry*; B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930
- LOUIS A. SAPORITO, *Assistant Clinical Professor of Dentistry*; D.D.S., College of Dental and Oral Surgery of New York, 1922
- WILLIAM J. SAVOY, *Associate Clinical Professor of Dentistry*; B.S., Manhattan, 1931; D.D.S., Columbia, 1935
- SAUL SCHLUGER, *Associate Clinical Professor of Dentistry*; D.D.S., Louisville, 1931
- JOSEPH SCHROFF, *William Carr Professor of Oral Surgery*; B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922
- BEATRICE C. SEEGAL, *Associate Professor of Microbiology*; A.B., California, 1918; A.M., 1921; M.D., Johns Hopkins, 1924
- JOSEPH SERONDE, *Assistant Professor of Pathology*; B.S., Yale, 1938; M.D., 1942
- HARRY H. SHAPIRO, *Assistant Professor of Anatomy*; D.M.D., Tufts, 1918
- HAROLD SHERMAN, *Assistant Clinical Professor of Dentistry*; B.S., College of the City of New York, 1935; D.D.S., Michigan, 1946
- MAURICE E. SHILS, *Assistant Professor of Nutrition*; A.B., Johns Hopkins, 1937; Sc.D., 1940
- WILLIAM H. SILVERSTEIN, *Assistant Clinical Professor of Dentistry*; D.D.S., Maryland, 1937
- GEORGE K. SMELSER, *Associate Professor of Anatomy*; A.B., Earlham, 1929; Ph.D., Chicago, 1932
- GILBERT, P. SMITH, *Professor of Dentistry*; D.D.S., Minnesota, 1927
- HARRY P. SMITH, *Delafield Professor of Pathology*; A.B., California, 1916; M.S., 1918; M.D., 1921
- WILLIAM C. SPRING, *DeLamar Professor of Public Health Practice*; M.D., Duke University, 1936; M.P.H., Columbia, 1947
- LEO STERN, Sr., *Clinical Professor of Dentistry*; D.D.S., New York College of Dentistry, 1912
- WELLINGTON B. STEWART, *Assistant Professor of Pathology*; B.S., Notre Dame, 1942; M.D., Rochester, 1945
- FRANCES A. STOLL, *Associate Professor of Dental Hygiene*; R.D.H., Columbia, 1934; B.S., 1944; A.M., 1945; Ed.D., 1949
- LEWIS R. STOWE, *Professor of Dentistry*; D.D.S., Minnesota, 1916
- DAVID TANCHESTER, *Clinical Professor of Dentistry*; D.D.S., New York University, 1921
- WILLIAM A. THEMANN, *Assistant Clinical Professor of Dentistry*; D.D.S., Columbia, 1927
- ARTHUR C. TOTTEN, *Professor of Dentistry*; D.D.S., Pennsylvania, 1926
- HARRY B. VAN DYKE, *Hosack Professor of Pharmacology*; B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923
- WILLIAM W. WALCOTT, *Associate Professor of Physiology*; A.B., Yale, 1933; Ph.D., Columbia, 1944
- SHIH-CHUN WANG, *Associate Professor of Physiology*; B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940
- EVELYN WITOL, *Assistant Clinical Professor of Dentistry*; D.M.D., Tufts, 1945
- EDWARD V. ZEGARELLI, *Associate Professor of Dentistry*; A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942
- JACK ALLOY, D.D.S., *Instructor in Dentistry*
- NORMAN ALPERT, Ph.D., *Instructor in Physiology*
- BERT BALLIN, D.D.S., *Assistant in Dentistry*
- CARLISE C. BASTIAN, D.D.S., *Lecturer in Dentistry*
- JAMES W. BENFIELD, D.D.S., *Instructor in Dentistry*
- IGNAZIO F. BOSCARRELLI, D.D.S., *Instructor in Dentistry*
- SEBASTIAN A. BRUNO, D.M.D., *Assistant in Dentistry*
- STANISLAW H. BRZUSTOWICZ, D.D.S., *Instructor in Dentistry*
- BARBARA CARROLL, R.D.H., *Instructor in Dental Hygiene*
- GEORGE B. CROZAT, D.D.S., *Lecturer in Dentistry*
- KOURKEN A. DAGLIAN, D.D.S., *Instructor in Dentistry*
- KENNETH C. DEESEN, D.D.S., *Instructor in Dentistry*
- JOSEPH C. DE LISI, D.D.S., *Assistant in Dentistry*
- ROBERT C. DEVINE, D.D.S., *Instructor in Dentistry*

¹ On leave 1953-1954 (military service).

² On leave 1953-1954.

- JOHN J. DOLCE, D.D.S., *Instructor in Dentistry*
 ROBERT DRELICH, D.D.S., *Assistant in Anatomy*
 JOSEPH D. EBY, D.D.S., *Lecturer in Dentistry*
 SOLON A. ELLISON, D.D.S., *Associate in Microbiology*
 JOSEPH E. FIASCONARO, D.D.S., *Instructor in Dentistry*
 ROBERT L. FISHER, D.D.S., *Assistant in Dentistry*
 HERBERT P. FRITZ, D.D.S., *Instructor in Dentistry*
 ROGER G. GERRY, D.M.D., *Research Assistant in Dentistry*
 HERMAN GLADSTONE, M.D., *Instructor in Anatomy*
 BENJAMIN W. GLICK, M.D., *Instructor in Anatomy*
 PAUL GOLDBABER, D.D.S., *Research Assistant in Dentistry*
 HENRY M. GOLDMAN, D.M.D., *Lecturer in Dentistry*
 IDA M. GOLOMB, D.D.S., *Instructor in Dentistry*
 ROSALIE GRECO, B.S., R.D.H., *Instructor in Dental Hygiene*
 AXEL HANSON, *Instructor in Dental Technique*
 STANLEY S. HELLER, D.D.S., *Assistant in Dentistry*
 JOHN D. HOGAN, D.D.S., *Instructor in Dentistry*
 SIDNEY L. HOROWITZ, D.D.S., *Research Assistant in Dentistry*
 ELLEN N. HOSIOSKY, D.M.D., D.D.S., *Instructor in Dentistry*
 CHRISTIAN A. HOVDE, A.M., *Instructor in Anatomy*
 RUTH K. INNESS, R.D.H., *Assistant in Dental Hygiene*
 JAMES JAY, D.D.S., *Instructor in Dentistry*
 JOSEPH E. JOHNSON, D.D.S., *Lecturer in Dentistry*
 SOLOMON L. KATZ, D.D.S., *Research Assistant in Dentistry*
 MORRIS KAVELLE, D.D.S., *Instructor in Dentistry*
 BERTRAM KLATSKIN, D.D.S., *Instructor in Dentistry*
 AUSTIN H. KUTSCHER, D.D.S., *Research Assistant in Dentistry*
 STANLEY L. LANE, M.D., D.D.S., *Instructor in Oral Surgery*
 JOSEPH M. LEAVITT, D.D.S., *Instructor in Dentistry*
 HENRY P. LEVY, D.D.S., *Assistant in Anatomy*
 EVALD LINDER, *Instructor in Dental Technique*
 JULIUS K. LITTMAN, M.D., *Instructor in Anatomy*
 FRANCIS J. LOUGHLIN, D.D.S., *Assistant in Dentistry*
 JOSEPH LUBAN, D.D.S., *Research Assistant in Dentistry*
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 HARRIET G. McCORMICK, Ph.D., *Lecturer in Dental Hygiene*
 EDITH I. MAGUIRE, R.D.H., *Lecturer in Dental Hygiene*
 IRWIN D. MANDEL, D.D.S., *Instructor in Dentistry*
 ARTHUR H. MERRITT, D.D.S., Sc.D., *Lecturer in Dentistry*
 HENRY MILCH, M.D., *Instructor in Anatomy*
 WILLIAM MILLER, D.D.S., *Instructor in Dentistry*
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²LENARD ZUCKERMAN, D.M.D., *Assistant in Dentistry*

¹ On leave 1953-1954 (military service).

² On leave 1953-1954.

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Attending Dental Surgeons

HOUGHTON HOLLIDAY
 CARL R. OMAN

JOSEPH SCHROFF
 GILBERT P. SMITH

ARTHUR C. TOTTEN

Associate Attending Dental Surgeons

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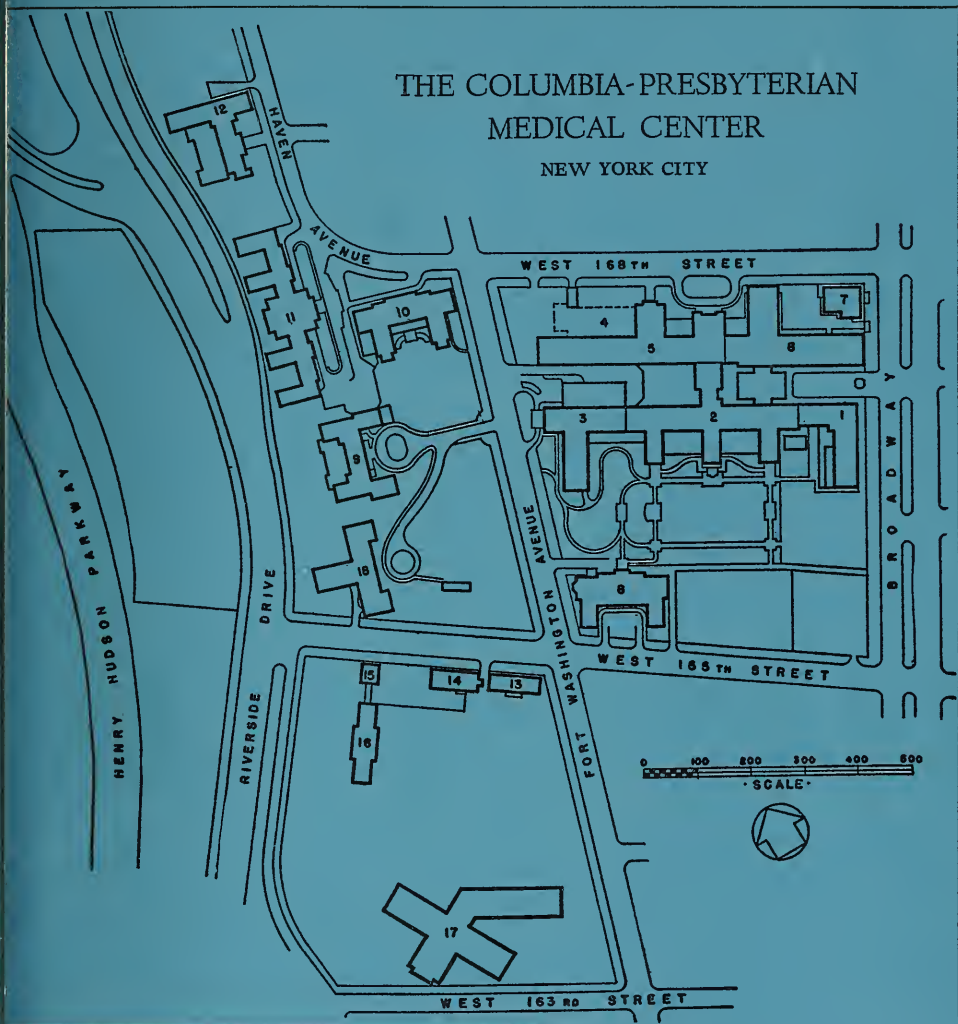
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 STANLEY L. LANE, M.D., D.D.S., *Assistant Attending Surgeon*

¹ On leave 1953-1954 (military service).



THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER NEW YORK CITY



- | | |
|---|--|
| 1. Babies Hospital | 8. Institute of Ophthalmology |
| 2. Presbyterian Hospital
Sloane Hospital
New York Orthopaedic Hospital | 9. Maxwell Hall |
| 3. Harkness Pavilion | 10. Neurological Institute |
| 4. Power plant | 11. New York State Psychiatric Institute and
Hospital |
| 5. College of Physicians and Surgeons | 12. Bard Hall |
| 6. Vanderbilt Clinic
School of Dental and Oral Surgery | 13, 16. Storage |
| 7. Washington Heights Health and Teaching
Center, New York City Department of
Health
School of Public Health | 14. Shops |
| | 15. Housing |
| | 17. Francis Delafield Hospital, New York City
Department of Hospitals |
| | 18. Edward S. Harkness Memorial Hall |

COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fifty-fourth Series, No. 26

July 10, 1954

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COLUMBIA UNIVERSITY

ANNOUNCEMENT OF THE
HEALTH COLLEGE LIBRARY

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE
FACULTY OF MEDICINE

1954-1955

COLUMBIA-PRESBYTERIAN MEDICAL CENTER

630 WEST 168TH STREET · NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-fourth Series, No. 26

July 10, 1954

Issued at Columbia University, Morningside Heights, New York 27, N.Y. weekly from January for forty-six consecutive issues. Reentered as second-class matter August 15, 1952, at the Post Office at New York, N.Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 5,100—1954

Communications

All communications regarding the School of Dental and Oral Surgery, applications for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.; telephone: WAdsworth 3-2500.

Announcements

The Announcements of each College or School and of the Summer Session may be obtained without charge by writing to the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.

CONDENSED ACADEMIC CALENDAR

1954

- September 7 Tuesday, and September 8, Wednesday. Registration, including payment of fees.
- September 13 Monday. Classes begin.
- November 2 Tuesday. Election Day. Holiday.
- November 25 Thursday. Thanksgiving Day. Holiday.
- November 27 Saturday. End of first trimester.
- November 29 Monday. Beginning of second trimester.
- December 20 Monday, through

1955

- January 2 Sunday. Christmas Holidays.
- February 12 Saturday. Lincoln's Birthday. Not a University Holiday.
- February 22 Tuesday. Washington's Birthday. Holiday.
- February 26 Saturday. End of second trimester.
- February 28 Monday. Beginning of third trimester.
- March 1 Tuesday. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.
- April 3 Sunday, through April 10, Sunday. Easter Holidays.
- May 21 Saturday. Last day of classes.
- May 23 Monday, through May 27, Friday. Final examinations.
- May 30 Monday. Memorial Day. Holiday.
- June 1 Wednesday. Conferring of degrees.

FACULTY OF MEDICINE

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AT THE SCHOOL OF DENTAL AND ORAL SURGERY

ANNA A. BERHOWSKY, B.A., M.A. *Assistant to the Registrar*THOMAS P. FLEMING, M.S. *Librarian*

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education at Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a dental school be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled *A Dental School on University Lines*. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigation and research to be logically a branch of general medicine.

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this School.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian

Hospital Medical Center, where the dental department of the School occupies three floors. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in medicine, dentistry, public health, and nursing. A committee on dental education, established by University statute, of which a majority is from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery is the chairman, initiates recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years and leads to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University, which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO THE FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application.—It is desirable that candidates make application during the academic year preceding that for which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y. Every application should be accompanied by a check or money order for \$5.00, payable to Columbia University, to cover the cost of processing the application. This fee is not returnable.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the following courses required by the New York State Board of Regents:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (inorganic)	6
Chemistry (an approved course in organic chemistry)	6

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of outside work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire college record of each student is carefully examined by the Committee on Admissions in order that those who are judged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance (see page 9).

All applicants will be required to take the Dental Aptitude Tests conducted by the Council on Dental Education at various testing centers throughout the United States and Canada. For further information apply directly to the Division of Aptitude Testing, Council on Dental Education of the American Dental Association, 222 East Superior Street, Chicago 11, Illinois.

COMBINED COURSES

Combined courses with Columbia College.—Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above. This combined course with Columbia College is being discontinued for students entering Columbia College in September 1954 and thereafter.

Combined courses with Barnard College.—Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined courses in dentistry and medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one Summer Session.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the Office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only with the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees and the University fee are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the Office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for the privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed for dental students:

a) University Fee

1. For each Winter or Spring Session or any part thereof, for students enrolled for:

One to four points, inclusive	\$ 5.00
More than four points to nine points, inclusive	10.00
More than nine points	20.00

2. For registration as engaged in research only, for any period not longer than a Winter or a Spring Session. 20.00

b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments 825.00
 For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

- c) Fee for application for a degree 20.00

d) Privileges

- | | |
|---|---------|
| 1. Late registration or late application for a degree or for deficiency or special examinations | \$ 3.00 |
| 2. Deficiency or special examinations | 3.00 |
| 3. Renewal of application for any degree | 1.00 |

e) Student Health Service Fee

This fee will be used to pay the annual premiums of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.

For all students, per academic year 25.00

f) Case rental

For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments 5.00

g) Rebates

1. The University fee, the student health service fee, and the fee for application for any degree shall not be subject to rebate.
2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.
3. When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

h) Undue breakage

While no deposit is required of students to cover laboratory material and ordinary breakage, any unusual amount of breakage will be charged.

Acceptance fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fee for processing of application.—A fee of \$5.00 is charged to every student who applies for admission to the School of Dental and Oral Surgery or the School of Medicine. This fee covers the cost of processing the application.

Fees for repeated courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and

regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe or variable focus condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

An itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries is given below. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1953-1954 and can be accepted as applicable in general for the year 1954-1955 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and University fees	\$ 865	\$ 865
Miscellaneous fees	35	35
Room	330	186
Board	600	500
Books	150	115
Instruments (see below)	375	350
Laundry	75	35
	<hr/>	<hr/>
	\$2,430	\$2,086

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is registered.

Students prevented by conscientious scruples from complying with academic require-

ments which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

a) A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under whom he has studied during the preceding year.

b) The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in the school.

Students are classified for readmission or promotion under the following headings:

1. Recommended for advancement.
2. Recommended for readmission to the same class.
3. Recommended neither for advancement nor for readmission to the same class:

(a) Because of failure.

(b) Because they fall under paragraph 2 of requirements for promotion.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their

equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter, with the filing of a second application the regular fee of \$20 is again payable.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of dental hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Whenever possible, a personal interview is desirable before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	<i>Semester Hours</i>
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits of the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Director, Courses for Dental Hygienists, 630 West 168th Street, New York 32, N.Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1954-1955 short refresher courses will be offered in various subjects.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes special work in the clinical and basic science branches of dentistry approved by the Dean. At present, an organized sixteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in oral diagnosis and roentgenology, oral surgery, pedodontics, and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the residence requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained by writing to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N.Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, N.Y. All applications for admission to the examinations should be completed at least thirty days before the examinations begin.

The State Department of Education will admit conditionally to the examination in anatomy, physiology and hygiene, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared their intention of becoming citizens in accordance with the law, who have completed the prescribed preliminary education requirement, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1954-1955

<i>Subjects*</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FIRST YEAR			
Anatomy			
Embryology 152 <i>F</i>	18		18
Gross 151 <i>FS</i>	50	222	272
Microscopic 150 <i>FS</i>	42	126	168
Neuro 153 <i>T</i>	30	36	66
Oral 101 <i>ST</i>	19	82	101
Biochemistry 150 <i>ST</i>	38	117	155
Histology, Oral 115 <i>ST</i>	25	52	77
Physiology 150 <i>FS</i>	56	152	208
Theory and Practice			
Dental History 287 <i>T</i>	10		10
			1,075

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

<i>Subjects*</i>	<i>Lecture or Seminar Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
SECOND YEAR			
Crown and Bridge 105 <i>ST</i>	20	184	204
Dental Materials 126 <i>FS</i>	10	56	66
Microbiology 151 <i>F</i> and 152 <i>F</i>	43	99	142
Operative Dentistry 131 <i>FST</i>	20	187	207
Pathology 150 <i>FS</i>	54	141	195
Periodontology 151 <i>T</i>	10	44	54
Pharmacology 150 <i>ST</i>	55	33	88
Prosthetic Dentistry 157 <i>FST</i>	20	198	218
Psychiatry 150 <i>S</i>	11		11
Surgery, Principles 168 <i>ST</i>	10		10
Surgery, Oral 270A <i>ST</i>	10		10
Theory and Practice Therapeutics 286 <i>T</i>	10		10
			1,215
THIRD YEAR			
Anatomy, Maxillofacial 252 <i>S</i>	10		10
Crown and Bridge Technique 205 <i>F</i>		96	96
Clinic 206 <i>ST</i>	10	114	124
Applied Occlusal Dynamics 212 <i>T</i>		30	30
Diagnosis 212 <i>FST</i>	30	25	55
Operative Dentistry 233 <i>FST</i>	10	276	286
Orthodontics 241 <i>F</i>	20	60	80
Pathology, Oral 246 <i>FS</i>	20	60	80
Periodontology 251 <i>S</i>		30	30
Practice of Medicine 278 <i>ST</i>	40	22	62
Prosthetic Dentistry 260 <i>FST</i> and 261 <i>FST</i>	20	177	197
Radiology 267 <i>F</i>	10	15	25
Surgery, Oral 270B <i>F</i>	10	20	30
			1,105
FOURTH YEAR			
Crown and Bridge 210 <i>FST</i> and 211 <i>FST</i>	10	165	175
Diagnosis 213 <i>F</i>		25	25
Diagnosis Seminar 214 <i>S</i>		30	30
Diagnosis 215 <i>T</i> (continuation of 214)	10		10
Orthodontics 242 <i>FST</i>		30	30
Operative Dentistry 234 <i>FST</i>	20	305	325
Pedodontics 202 <i>FST</i>	10	87	97
Periodontology 252 <i>FS</i> and 253 <i>FS</i>	20	30	50
Prosthetic Dentistry 263 <i>FST</i> and 264 <i>FST</i>	10	165	175
Public Health 222 <i>S</i>	20		20
Surgery, Oral 272 <i>FST</i>	40	60	100
Surgery Seminar 274 <i>T</i>	10		10
Surgical Prosthesis 265 <i>T</i>		30	30
Theory and Practice Clinical Oral Physiology 283 <i>F</i>	10		10
Ethics, Jurisprudence and Practice Ad- ministration 281 <i>FST</i>	30		30
Comprehensive 285 <i>T</i>			
			1,117

* Letter following course number designates trimester: *F* = first, *S* = second, and *T* = third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow.

The outline on pages 15 and 16 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115—Oral histology and embryology. Freshman year.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year.

Lectures and demonstration dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Maxillofacial anatomy. Junior year.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lectures and clinic. Junior year.

Lectures and clinical practice in diagnostic procedures, comprehensive diagnosis, pulp symptomatology, radiographic interpretation, and diagnosis of lesions and diseases of the oral cavity.

Diagnosis 213—Dental diagnosis clinic. Senior year.

Continuation of clinic of *Diagnosis 212*.

Diagnosis 214—Diagnosis seminar. Senior year.

Discussion and differential diagnosis of diseases of the oral cavity.

Diagnosis 215—Diagnosis seminar. Senior year.

Continuation of *Diagnosis 214*.

MEDICINE**Medicine 278—General survey of medicine. Junior year.**

Lectures and conferences covering phases of general medicine; also clinics in which patients are studied for conspicuous manifestations of systemic conditions and their significance.

MICROBIOLOGY**Microbiology 151—General medical microbiology and immunology. Sophomore year.**

Lectures, conferences, and laboratory.

Microbiology 152—Principles of microbiology, immunology, and epidemiology. Sophomore year.

This course is identical with *Microbiology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

OPERATIVE DENTISTRY**Operative Dentistry 131—Elements of operative dentistry. Sophomore year.**

Lectures on the fundamentals of operative dentistry, including the etiology of dental caries and the biological approach to the technical procedures in the filing of teeth.

Operative Dentistry 233—Operative clinical practice. Junior year.

Introduction to clinical practice. Lectures on the application of operative fundamentals to clinical practice. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced clinical practice. Senior year.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including endodontia.

ORTHODONTICS**Orthodontics 241—Principles of orthodontics. Junior year.**

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention of malocclusion in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time is devoted to the designing and constructing of removable appliances used as space maintainers and habit breakers and to correcting tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Senior year.

Clinical orthodontics.

PATHOLOGY**Pathology 150—General and special pathology. Sophomore year.**

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS**Pedodontics 202—Pedodontics lectures and clinic. Senior year.**

Lectures and conferences on operative dental procedures for children, management of child dental patients, and application of present knowledge of dental development and preventive dentistry.

PERIODONTOLOGY**Periodontology 151—Periodontia clinic. Sophomore year.**

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year.

Lectures and conferences on the theory and practice of periodontology and periodontal histopathology.

Periodontology 253—Periodontia clinic. Senior year.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY**Pharmacology 150—Pharmacology. Sophomore year.**

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY**Physiology 150—Mammalian physiology. Freshman year.**

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY**Prosthetics 105—Crown and bridge lectures and technique. Sophomore year.**

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year.

Lectures on the clinical procedures in crown and bridgework.

Prosthetics 206—Crown and bridge clinic. Junior year.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology.

Prosthetics 260—Prosthetic lectures. Junior year.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year.

A series of lectures on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY**Psychiatry 150—Psychiatry for the dentist. Sophomore year.**

Lectures on mental hygiene and general principles involved in the field of psychiatry. The development and organization of the personality. The effects of emotional problems, in the development of psychological symptoms, and psychosomatic disorders. General considerations in psychotherapy.

PUBLIC HEALTH**Public Health 222—Principles of public health. Senior year.**

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY**Radiology 267—Oral radiology practice. Junior year.**

Lectures, readings, and discussions on topics relative to oral radiology.
Practice in exposing, processing, and mounting dental radiographs.

SURGERY**Surgery 168—Principles of surgery. Sophomore year.**

Lectures, seminars, and basic principles of general surgery.

Surgery 270A—Oral surgery. Sophomore year.

Lectures and seminars on local anesthesia and removal of teeth.

Surgery 270B—Oral surgery. Junior year.

Demonstrations, lectures, and clinical practice in local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentation.

.THEORY AND PRACTICE OF DENTISTRY**Theory and Practice 281—Dental ethics, jurisprudence, and practice administration. Senior year.**

Lecture and conference course on dental ethics, jurisprudence, economics, office conduct, and practice management.

Theory and Practice 283—Clinical oral physiology. Senior year.

The physiology of the masticatory system and its relation to dental practice is studied through lectures, demonstrations, and clinical conferences.

Theory and Practice 285—Comprehensive case. Senior year.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment-planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

Theory and Practice 287—Dental history. Freshman year.

Lectures and conferences on the development of the scientific and technical principles of modern dentistry.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. GROSS ANATOMY: One of the following three: Gray's *Anatomy*; Cunningham, *Textbook of Anatomy*; or Morris, *Human Anatomy*; one of the following three dictionaries: Stedman, Gould, or Dorland's American; Cunningham, *Manual of Practical Anatomy*, Vols. II and III; one of the following four: Grant, *Atlas of Anatomy*; Truex and Kellner, *Detailed Atlas of the Head and Neck*; Spalteholz, *Hand Atlas of Human Anatomy*; or Anson, *Atlas of Human Anatomy*.

MAXILLOFACIAL ANATOMY: Shapiro, *Applied Anatomy of the Head and Neck* (1954 ed.)

EMBRYOLOGY: One of the following three: Arey, *Developmental Anatomy*; Hamilton, *Human Embryology*; or Patten, *Human Embryology*.

MICROSCOPIC ANATOMY: Bailey, *Textbook of Histology* (13th ed.); mimeographed laboratory manual.

NEUROANATOMY: Strong and Elwyn, *Human Neuroanatomy*; mimeographed laboratory manual.

ORAL HISTOLOGY AND EMBRYOLOGY: Orban, *Oral Histology and Embryology*; Diamond, *Dental Anatomy*.

BIOCHEMISTRY: Harrow and Mazur, *Textbook of Biochemistry* (6th ed.); Karshan, *Laboratory Manual of Biochemistry for Dental Students*.

DENTAL ETHICS, JURISPRUDENCE, AND PRACTICE ADMINISTRATION: Regan, *The Doctor, the Patient and the Law*.

DENTAL THERAPEUTICS: Council on Therapeutics, American Dental Association, *Accepted Dental Remedies*; McGee and Green, *Pharmacology and Pharmacotherapeutics for Dentists*.

DIAGNOSIS: Thoma, *Oral Pathology* (3d ed.).

MEDICINE: One of the following three: Yater, *Fundamentals of Internal Medicine* (3d rev. ed.); Comroe, Collins, and Crane, *Internal Medicine in Dental Practice* (4th ed.); or Cecil and Loeb, *Textbook of Medicine* (8th ed.).

MICROBIOLOGY: Laboratory Manual in Microbiology and Immunology; Smith and Conant, *Zinsser's Textbook of Bacteriology* (10th ed.).

OPERATIVE DENTISTRY: Black, *Operative Dentistry*, Vols. II and III; *Operative Dentistry Syllabus*; Grossman, *Root Canal Therapy*.

ORAL PATHOLOGY: Thoma, *Oral Pathology* (3d ed.); or Kronfeld, *Histopathology of the Teeth* (3d ed.).

ORTHODONTICS: Salzmann, *Principles of Orthodontics*.

PATHOLOGY: One of the following four: Boyd, *Textbook of Pathology*; Karsner, *Textbook of Pathology*; Moore, *Textbook of Pathology*; or Anderson, *Pathology*.

PEDODONTICS: McBride, *Juvenile Dentistry* (5th ed.).

PERIODONTOLOGY: Beube, *Periodontology*; and Goldman, *Periodontia*.

PHARMACOLOGY: Goodman and Gilman, *Pharmacological Basis of Therapeutics* (1954).

PHYSIOLOGY: Bard, *Macleods Physiology in Modern Medicine* (10th ed.).

PROSTHETIC DENTISTRY: Skinner, *Science of Dental Materials*; Swenson, *Complete Dentures*; Tylman, *Crown and Bridge Prosthesis*; United States Government Printing Office, *Physical Properties of Dental Materials*; Young *et al.*, *Syllabus on Complete Dentures*.

PSYCHIATRY: Strecker, *Fundamentals of Psychiatry* (5th ed.).

RADIOLOGY: McCall and Wald, *Clinical Dental Roentgenology* (3d ed.).

SURGERY: Berger, *Principles and Technique of Oral Surgery*; Berger, *Principles and Technique of the Removal of Teeth*; Parker, *Synopsis of Traumatic Injuries of the Face and Jaw*.

SURGICAL PROSTHESIS: Beder, *Surgical and Maxillofacial Prosthesis*.

STUDENT ORGANIZATIONS

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the Office of the Registrar, 315 University Hall.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of the use of names in which the name of the University is embodied or suggested and the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 percent of the members of the graduating Senior class, on the basis of scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based on scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

FACILITIES

LIBRARY

The Medical Library occupies part of the three lower floors in the College of Physicians and Surgeons. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works and through its unique bibliographic service.

The Library contains approximately two hundred thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than twenty-three hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of dentistry. The main collection is housed in Butler Library; special and departmental collections are located in various other buildings on the campus. They

include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to dentistry and supplement the special collections available in the Medical Library. Books may be borrowed for home use.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, gymnasium, and other activities.

University gymnasium.—The gymnasium is situated on Morningside Heights and is open daily, except Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the gymnasium, baths, and private lockers. A service charge for physical education, amounting to one dollar (\$1.00) per session (Winter, Spring, or Summer), is charged each student using the facilities of the University gymnasium without formal registration in physical education courses. In addition a deposit must be made of two dollars (\$2.00) for a lock, locker, and towel.

STUDENT HEALTH SERVICE

The Student Health Service is located in Room 220, 2nd Floor, Vanderbilt Clinic. Daily office hours are held for sick students. Emergency treatment after 5:00 P.M. and on week ends may be obtained in Admitting Emergency, Vanderbilt Clinic. Students, sick at home and living within the immediate vicinity of the Medical Center, may contact the Physician-in-Charge of the Health Service. Students requiring hospitalization will be taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University is assisted by three religious counselors: the Counselor to Protestant Students, the Counselor to Roman Catholic students, and the Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves with the schedules, which are conveniently posted.

There are a number of student religious organizations to which the Chaplain and counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

Residence halls announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27, N.Y., or (for women) from the Johnson Hall Office, 411 West 116th

Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, near the campus, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University residence hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write to International House, 500 Riverside Drive, New York 27, N.Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Three Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University and are eligible for reappointment for no more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for no more than three additional years. The annual stipend is \$1,500. Applications should be submitted on or before February 20 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 13.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to the student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT LOANS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the office of the Dean or of the Bursar. Applications for loans for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

OFFICERS OF INSTRUCTION

- HAROLD A. ABRAMSON, *Assistant Clinical Professor of Physiology*; A.B., Columbia, 1920; M.D., 1923
- THOMAS H. ALLEN, *Associate Professor of Physiology*; A.B., Iowa, 1936; Ph.D., 1941
- FRANZ ALTMANN, *Associate Clinical Professor of Otolaryngology*; M.D., Vienna, 1925
- VIRGINIA APGAR, *Professor of Anesthesiology*; A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933
- EDMUND APPLEBAUM, *Associate Professor of Dental Anatomy*; D.D.S., New York College of Dentistry, 1922
- HOWARD ARDEN, *Assistant Professor of Dentistry*; B.S., Fordham, 1943; D.D.S., Columbia, 1946
- HERBERT D. AYERS, JR., *Assistant Clinical Professor of Dentistry*; A.B., Columbia, 1929; D.D.S., 1931
- MARGARET W. BARNARD, *Associate Professor of Public Health Practice*; A.B., Smith, 1917; M.D., Cornell, 1923; D.P.H., Johns Hopkins, 1935
- HENRY A. BARTELS, *Assistant Professor of Oral Pathology*; B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927
- HERBERT BARTELSTONE, *Assistant Professor of Pharmacology*; B.S., College of the City of New York, 1942; D.D.S., Columbia, 1945
- FRANK E. BEUBE, *Clinical Professor of Dentistry*; L.D.S., D.D.S., Toronto, 1930
- HAROLD B. BROWN, *Associate Dean (Public Health)*; *Director, School of Public Health*; *Professor of Parasitology*; A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936
- JACK BUDOWSKY, *Assistant Clinical Professor of Dentistry*; D.D.S., Columbia, 1943
- THEODORE BUNDRANT, *Associate Clinical Professor of Dentistry*; D.D.S., Howard, 1929
- LESTER R. CAHN, *Associate Professor of Oral Pathology*; D.D.S., New York College of Dentistry, 1918
- EDWARD A. CAIN, JR., *Associate Professor of Dentistry*; B.S., Fordham, 1942; D.D.S., Columbia, 1945
- ¹NEAL W. CHILTON, *Assistant Professor of Dental Public Health Practice*; B.S., College of the City of New York, 1939; D.D.S., New York University, 1943; M.P.H., Columbia, 1946
- LOUIS J. CIZEK, *Assistant Professor of Physiology*; B.S., Fordham, 1937; M.D., Columbia, 1941
- E. GURNEY CLARK, *Professor of Epidemiology*; A.B., Vanderbilt, 1927; M.D., 1931; M.P.H., Johns Hopkins, 1936; D.P.H., 1944
- HANS T. CLARKE, *Professor of Biochemistry*; B.Sc., London, 1908; D.Sc., 1914
- LOUIS A. COHN, *Associate Clinical Professor of Dentistry*; D.D.S., Pennsylvania, 1928
- ROBERT W. COON, *Associate Professor of Pathology*; B.S., North Dakota, 1942; M.D., Rochester, 1944
- WILFRED M. COPENHAVER, *Professor of Anatomy*; A.B., Western Maryland, 1921; Ph.D., Yale, 1925
- JOSEPH A. CUTTITA, *Assistant Professor of Dentistry*; A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939
- SAMUEL R. DETWILER, *Professor of Anatomy*; Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (*hon.*), 1931
- NICHOLAS DISALVO, *Assistant Professor of Physiology*; B.S., College of the City of New York, 1942; D.D.S., Columbia, 1945; Ph.D., 1952
- ADOLPH ELWYN, *Associate Professor of Neuroanatomy*; B.S., Columbia, 1915; A.M., 1917
- EARL T. ENGLE, *Professor of Anatomy*; A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925
- JOHN W. FERTIG, *Professor of Biostatistics*; A.B., Ursinus, 1931; Ph.D., Minnesota, 1935
- JOSEPH E. FIASCONARO, *Assistant Clinical Professor of Dentistry*; D.D.S., Columbia, 1943
- MORRIS FIERSTEIN, *Associate Clinical Professor of Dentistry*; D.D.S., Columbia, 1921
- JOSEPH E. FLYNN, *Associate Professor of Pathology*; A.B., Columbia (Iowa), 1933; M.D., Iowa, 1938
- LEWIS FOX, *Assistant Clinical Professor of Dentistry*; D.D.S., Maryland, 1927
- HARRY A. GALTON, *Associate Clinical Professor of Dentistry*; D.D.S., Columbia, 1932
- ALFRED GILMAN, *Professor of Pharmacology*; B.S., Yale, 1928; Ph.D., 1931
- LEONARD J. GOLDWATER, *Professor of Occupational Medicine*; A.B., Michigan, 1924; M.D., New York University, 1928; Med.Sc.D., 1937; M.S.P.H., Columbia, 1941
- ROBERT GOTTSEGEN, *Assistant Clinical Professor of Dentistry*; A.B., Michigan, 1939; D.D.S., Columbia, 1943
- MAGNUS I. GREGERSEN, *Dalton Professor of Physiology*; A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930
- ROBERT E. HERLANDS, *Associate Professor of Dentistry*; A.B., Columbia, 1941; D.D.S., 1944
- MAURICE J. HICKEY, *Associate Dean (Dental and Oral Surgery)*; *Professor of Oral Surgery*; D.M.D., Harvard, 1932; M.D., Columbia, 1937
- GEORGE W. HINDELS, *Assistant Clinical Professor of Dentistry*; M.D., Vienna, 1938; D.D.S., Columbia, 1943
- LEONARD HIRSCHFELD, *Assistant Clinical Professor of Dentistry*; A.B., Columbia, 1941; D.D.S., 1944
- FRANKLIN HOLLANDER, *Assistant Clinical Professor of Physiology*; B.S., Columbia, 1919; Ph.D., 1923
- HOUGHTON HOLLIDAY, *Professor of Dentistry*; A.B., Minnesota, 1915; D.D.S., 1917; D.D.S. (*hon.*), Montreal, 1945
- IRVIN L. HUNT, JR., *Associate Professor of Dentistry*; D.D.S., Pennsylvania, 1929
- ALVIN R. JACOBSON, *Associate Professor of Sanitary Science*; B.S., North Dakota, 1935; M.S., 1937; Ph.D., Iowa, 1941
- JAMES JAY, *Assistant Clinical Professor of Dentistry*; D.D.S., Pennsylvania, 1940
- DOROTHY D. JOHNSON, *Assistant Professor of Anatomy*; A.B., Bates, 1941; A.M., Vassar, 1943; Ph.D., Columbia, 1949
- ELVIN A. KABAT, *Professor of Microbiology*; B.S., College of the City of New York, 1932; A.M., Columbia, 1934; Ph.D., 1937
- MAXWELL KARSHAN, *Associate Professor of Biochemistry*; B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925
- MORRIS KAVELLE, *Assistant Clinical Professor of Dentistry*; D.D.S., Columbia, 1933
- LAWRENCE C. KOLB, *Professor of Psychiatry*; M.D., Johns Hopkins, 1934
- JOSEPH M. LEAVITT, *Assistant Clinical Professor of Dentistry*; D.D.S., Columbia, 1940

¹ On leave 1954-1955 (military service).

- BARNET M. LEVY, *Professor of Dentistry*; A.B., Pennsylvania, 1938; D.D.S., 1942; M.S., Virginia, 1944
- GEORGE F. LINDIG, *Associate Clinical Professor of Dentistry*; D.D.S., Minnesota, 1924
- JOHN J. LUCCA, *Assistant Professor of Dentistry*; A.B., New York University, 1941; D.D.S., Columbia, 1947
- JOHN D. MACLENNAN, *Assistant Professor of Microbiology*; M.B., Ch.B., Aberdeen, 1934; M.D., 1939
- WILLIAM J. MILLER, *Assistant Clinical Professor of Dentistry*; A.B., New York University, 1940; D.D.S., Columbia, 1943
- MELVIN MORRIS, *Assistant Clinical Professor of Dentistry*; B.S., College of the City of New York, 1934; M.A., Columbia, 1937; D.D.S., 1941
- WILLIAM L. NASTUK, *Assistant Professor of Physiology*; B.S., Rutgers, 1939; Ph.D., 1945
- ALVIN S. NATHAN, *Associate Clinical Professor of Dentistry*; D.D.S., Columbia, 1926; B.S., New York University, 1935; A.M., 1938
- JOHN L. NICKERSON, *Professor of Physiology*; B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1935
- CARL R. OMAN, *Professor of Dentistry*; D.D.S., Minnesota, 1914
- ARMAND OPPENHEIMER, *Assistant Clinical Professor of Dentistry*; A.B., College of the City of New York, 1926; B.S., Columbia, 1927; D.D.S., 1929
- DOUGLAS B. PARKER, *Clinical Professor of Oral Surgery*; M.D., Long Island College of Medicine, 1912; D.D.S., Pennsylvania, 1914
- MAX A. PLEASURE, *Associate Clinical Professor of Dentistry*; D.D.S., Pennsylvania, 1928; M.S.P.H., Columbia, 1941
- WILLARD C. RAPPLEYE, *Dean, Faculty of Medicine; Vice President in Charge of Medical Affairs; Professor of Medical Economics*; A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922; Sc.D., Trinity (*hon.*), 1939; Rutgers (*hon.*), 1949; Med.Sc.D., Women's Medical College of Pennsylvania (*hon.*), 1950
- WILLIAM M. ROGERS, *Assistant Professor of Anatomy*; B.S., Georgia, 1921; Ph.D., Cornell, 1927
- WALTER S. ROOT, *Professor of Physiology*; B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930
- HARRY M. ROSE, *John E. Borne Professor of Medical and Surgical Research*; A.B., Yale, 1928; M.D., Cornell, 1932
- GEORGE ROSEN, *Professor of Public Health Education*; B.S., College of the City of New York, 1930; M.D., Berlin, 1935; Ph.D., Columbia, 1944; M.P.H., 1947
- SOLOMON N. ROSENSTEIN, *Professor of Dentistry*; B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930
- FRED ROTHENBERG, *Assistant Clinical Professor of Dentistry*; D.M.D., Goettingen, Germany, 1935; D.D.S., Pennsylvania, 1937
- LOUIS A. SAPORITO, *Assistant Clinical Professor of Dentistry*; D.D.S., College of Dental and Oral Surgery of New York, 1922
- WILLIAM J. SAVOY, *Associate Clinical Professor of Dentistry*; B.S., Manhattan, 1931; D.D.S., Columbia, 1935
- SAUL SCHLUGER, *Associate Clinical Professor of Dentistry*; D.D.S., Louisville, 1931
- JOSEPH SCHROFF, *William Carr Professor of Oral Surgery*; B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922
- L. LASZLO SCHWARTZ, *Associate Clinical Professor of Dentistry*; D.D.S., Columbia, 1931
- BEATRICE C. SEEGAL, *Associate Professor of Microbiology*; A.B., California, 1918; A.M., 1921; M.D., Johns Hopkins, 1924
- HARRY H. SHAPIRO, *Assistant Professor of Anatomy*; D.M.D., Tufts, 1918
- HAROLD SHERMAN, *Assistant Clinical Professor of Dentistry*; B.S., College of the City of New York, 1935; D.D.S., Michigan, 1946
- WILLIAM H. SILVERSTEIN, *Assistant Clinical Professor of Dentistry*; D.D.S., Maryland, 1937
- GEORGE K. SMELSER, *Associate Professor of Anatomy*; A.B., Earlham, 1929; Ph.D., Chicago, 1932
- GILBERT P. SMITH, *Professor of Dentistry*; D.D.S., Minnesota, 1927
- HARRY P. SMITH, *Delafield Professor of Pathology*; A.B., California, 1916; M.S., 1918; M.D., 1921
- WILLIAM C. SPRING, *DeLamar Professor of Public Health Practice*; M.D., Duke University, 1936; M.P.H., Columbia, 1947
- LEO STERN, Sr., *Clinical Professor of Dentistry*; D.D.S., New York College of Dentistry, 1912
- WELLINGTON B. STEWART, *Associate Professor of Pathology*; B.S., Notre Dame, 1942; M.D., Rochester, 1945
- FRANCES A. STOLL, *Associate Professor of Dental Hygiene*; R. D. H., Columbia, 1934; B.S., 1944; A.M., 1945; Ed.D., 1949
- LEWIS R. STOWE, *Professor of Dentistry*; D.D.S., Minnesota, 1916
- DAVID TANCHESTER, *Clinical Professor of Dentistry*; D.D.S., New York University, 1921
- WILLIAM A. THEMANN, *Assistant Clinical Professor of Dentistry*; D.D.S., Columbia, 1927
- ARTHUR C. TOTTEN, *Professor of Dentistry*; D.D.S., Pennsylvania, 1926
- FERDINAND A. TUOTI, *Assistant Clinical Professor of Dentistry*; D.M.D., Harvard, 1928
- HARRY B. VAN DYKE, *Hosack Professor of Pharmacology*; B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923
- WILLIAM A. VERLIN, *Assistant Clinical Professor of Dentistry*; D.D.S., Columbia, 1931
- WILLIAM W. WALCOTT, *Associate Professor of Physiology*; A.B., Yale, 1933; Ph.D., Columbia, 1944
- SHIH-CHUN WANG, *Professor of Physiology*; B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940
- CLIFFORD L. WHITMAN, *Assistant Clinical Professor of Dentistry*; D.D.S., Maryland, 1927
- EVELYN WITOL, *Assistant Clinical Professor of Dentistry*; D.M.D., Tufts, 1945
- EDWARD V. ZEGARELLI, *Associate Professor of Dentistry*; A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1943
- JACK ALLOY, D.D.S., *Instructor in Dentistry*
- NORMAN ALPERT, Ph.D., *Instructor in Physiology*
- BERT BALLIN, D.D.S., *Assistant in Dentistry*
- CARLISLE C. BASTIAN, D.D.S., *Lecturer in Dentistry*

¹ On leave 1954-1955 (military service).

- IGNAZIO F. BOSCARIELLI, D.D.S., *Instructor in Dentistry*
 PAUL BRAZEAU, Ph.D., *Associate in Pharmacology*
 SEBASTIAN A. BRUNO, D.M.D., *Assistant in Dentistry*
 STANISLAW H. BRZUSTOWICZ, D.D.S., *Instructor in Dentistry*
 BARBARA CARROLL, R.D.H., *Instructor in Dental Hygiene*
 JAMES P. CATTELL, M.D., *Research Associate in Psychiatry*
 BERNARD S. CHAIKIN, D.M.D., *Lecturer in Dentistry*
 GEORGE B. CROZAT, D.D.S., *Lecturer in Dentistry*
 KOURKEN A. DAGLIAN, D.D.S., *Instructor in Dentistry*
 KENNETH C. DEESEN, D.D.S., *Assistant in Dentistry*
 JOSEPH C. DE LISI, D.D.S., *Assistant in Dentistry*
 JOHN J. DOLCE, D.D.S., *Instructor in Dentistry*
 ROBERT DREICH, D.D.S., *Assistant in Anatomy*
 JOSEPH D. EBY, D.D.S., *Lecturer in Dentistry*
 SOLON A. ELLISON, D.D.S., *Associate in Microbiology*
 BERNARD F. ERLANGER, Ph.D., *Associate in Microbiology*
 ROBERT L. FISHER, D.D.S., *Assistant in Dentistry*
 EDWARD U. FRIEDMAN, D.D.S., *Assistant in Dentistry*
 HERBERT P. FRITZ, D.D.S., *Instructor in Dentistry*
 ROGER G. GERRY, D.M.D., *Research Assistant in Dentistry*
 HERMAN GLADSTONE, M.D., *Instructor in Anatomy*
 BENJAMIN W. GLICK, M.D., *Instructor in Anatomy*
 PAUL GOLDBABER, D.D.S., *Research Assistant in Dentistry*
 HENRY M. GOLDMAN, D.M.D., *Lecturer in Dentistry*
 IDA M. GOLOMB, D.D.S., *Instructor in Dentistry*
 AXEL HANSON, *Instructor in Dental Technique*
 HAROLD R. HARLAN, D.D.S., M.P.H., *Lecturer in Dental Hygiene*
 STANLEY S. HELLER, D.D.S., *Assistant in Dentistry*
 FREDERICK G. HOFMANN, Ph.D., *Associate in Pharmacology*
 JOHN D. HOGAN, D.D.S., *Instructor in Dentistry*
 MARGARET HOLDEN, Ph.D., *Associate in Microbiology*
 SIDNEY L. HOROWITZ, D.D.S., *Research Associate in Dentistry*
 ELLEN N. HOSIOSKY, D.M.D., D.D.S., *Instructor in Dentistry*
 CHRISTIAN A. HOVDE, A.M., *Instructor in Anatomy*
 CALDERON HOWE, M.D., *Associate in Microbiology*
 RUTH K. INNESS, R.D.H., *Assistant in Dental Hygiene*
 JOSEPH E. JOHNSON, D.D.S., *Lecturer in Dentistry*
 SOLOMON L. KATZ, D.D.S., *Research Assistant in Dentistry*
 BERTRAM KLATSKIN, D.D.S., *Instructor in Dentistry*
 ALICE W. KNOX, Ph.D., *Instructor in Microbiology*
 ROBERT G. KROLL, D.D.S., *Assistant in Dentistry*
 PHILIP KUTNER, D.D.S., *Assistant in Dentistry*
 AUSTIN H. KUTSCHER, D.D.S., *Research Assistant in Dentistry*
 HENRY P. LEVY, D.D.S., *Assistant in Anatomy*
 EVALD LINDER, *Instructor in Dental Technique*
 JULIUS K. LITTMAN, M.D., *Instructor in Anatomy*
 FRANCIS J. LOUGHLIN, D.D.S., *Assistant in Dentistry*
 JOSEPH LUBAN, D.D.S., *Research Assistant in Dentistry*
 EDWARD S. LUBOJA, D.D.S., *Instructor in Dentistry*
 MARTIN LUNIN, D.D.S., *Instructor in Oral Pathology*
 HARRIET G. MCCORMICK, Ph.D., *Lecturer in Dental Hygiene*
 EDITH I. MAGUIRE, R.D.H., *Lecturer in Dental Hygiene*
 IRWIN D. MANDEL, D.D.S., *Instructor in Dentistry*
 JOSEPH J. MARTINI, D.D.S., *Assistant in Dentistry*
 ARTHUR H. MERRITT, D.D.S., Sc.D., *Lecturer in Dentistry*
 HENRY MILCH, M.D., *Instructor in Anatomy*
 WILLIAM MILLER, D.D.S., *Instructor in Dentistry*
 SAUL MISHELOFF, D.D.S., *Lecturer in Dentistry*
 HOWARD B. MOSHMAN, D.D.S., *Assistant in Dentistry*
 HENRY I. NAHOUM, D.D.S., *Research Assistant in Dentistry*
 IRVING J. NAIDORF, D.D.S., *Assistant in Dentistry*
 HANS H. NEUMANN, M.D., *Research Assistant in Dentistry*
 BISSELL B. PALMER, D.D.S., *Research Associate in Administrative Medicine*
 JOHN D. PIRO, D.D.S., *Instructor in Dentistry*
 CURT PROSKAUER, D.M.D., *Curator of the Museum, Dental and Oral Surgery*
 JOSEPH RANDI, D.D.S., *Assistant in Dentistry*
 ROBIN M. RANKOW, D.D.S., M.D., *Instructor in Oral Surgery*
 SYDNEY C. RAPPAPORT, D.D.S., *Research Assistant in Dentistry*
 ARNOLD C. ROSENBERG, D.D.S., *Assistant in Dentistry*
 JULIAN SCHROFF, D.D.S., *Instructor in Dentistry*
 GEORGE SCHWENDENER, D.D.S., *Instructor in Dentistry*
 STEVEN SCRIVANI, D.D.S., *Instructor in Dentistry*
 HUBERT SEAR, M.D., *Instructor in Physiology*
 ALEXANDER SEELIG, D.D.S., *Instructor in Anatomy*
 BARBARA JO SERBER, A.B., *Assistant in Anatomy*
 BOAZ SHATTAN, D.D.S., *Instructor in Dentistry*
 HERBERT F. SILVERS, D.D.S., *Research Associate in Dentistry*
 FRANKLIN A. SQUIRES, D.D.S., *Lecturer in Dentistry*
 GEORGE STEIN, M.D., D.M.D., *Research Associate in Dentistry*
 WALTER W. STEVENS, D.D.S., *Instructor in Dentistry*
 HARRY STRUSSER, D.D.S., *Lecturer in Dental Public Health Practice*
 STUART W. TANENBAUM, Ph.D., *Associate in Microbiology*
 JULIUS TARSHIS, D.D.S., *Assistant in Dentistry*
 BENJAMIN TENENBAUM, D.D.S., *Research Associate in Dentistry*
 ENNIO L. UCCELLANI, D.D.S., *Assistant in Dentistry*
 D. VINCENT VARALLO, D.D.S., *Assistant in Dentistry*
 LENARD ZUCKERMAN, D.M.D., *Assistant in Dentistry*

¹ On leave 1954-1955.

² On leave 1954-1955 (military service).

CLINICAL ASSISTANTS

AARON L. ACKERMAN, D.D.S., M.P.H.
 JEROME BARTWINK, D.M.D.
 DANIEL BLATMAN, D.D.S.
 PANDELIS CAMESAS, D.D.S.
 CHARLES M. CHAYES, D.D.S.
 HAROLD P. COBIN, D.D.S.
 LAWRENCE DAUM, D.D.S.
¹JESSE W. FIELD, D.D.S.
¹RICHARD C. FOWLER, D.D.S.
 SALVATORE GULLI, D.D.S.
 MARCELLA HALPERT, D.D.S.
 LAWRENCE HEIMAN, D.D.S.
 FRANK KANTER, D.D.S.
 FRANK A. KORNIWICZ, D.D.S.
 JESSE L. LEFCOURT, D.D.S.

SEYMOUR LEVINE, D.D.S.
 IRWIN LIGHTERMAN, D.D.S.
 PHILIP P. MCMANUS, JR., D.D.S.
¹LOUIS MANDEL, D.D.S.
 BERNARD NATHANSON, D.D.S.
¹ANTONIO REYES-GUERRA, JR., D.D.S.
 STANLEY R. SADLES, D.D.S.
 JAMES L. SCALES, D.D.S.
 JOSEPH SERIO, D.D.S.
²MORTON D. SHAPIRO, D.D.S.
 OVID SLAVIN, D.D.S.
 WALTER G. SPENGEMAN, D.D.S.
 EDWARD E. TELTSCH, D.D.S.
¹SEYMOUR ZEFF, D.D.S.
 DAVID ZEISLER, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

LEWIS R. STOWE, *Director*

Attending Dental Surgeons

HOUGHTON HOLLIDAY
 CARL R. OMAN

JOSEPH SCHROFF
 GILBERT P. SMITH
 ARTHUR C. TOTTEN

Associate Attending Dental Surgeons

LESTER R. CAHN
 IRVIN L. HUNT, JR.
 BARNET M. LEVY

ALVIN S. NATHAN
 SOLOMON N. ROSENSTEIN
 WILLIAM J. SAVOY
 EDWARD V. ZEGARELLI

Assistant Attending Dental Surgeons

FRANK E. BEUBE
 JACK BUDOWSKY
 EDWARD A. CAIN
 KOURKEN DAGLIAN

ROBERT E. HERLANDS
 LOUIS L. SCHWARTZ
 BOAZ SHATTAN
 ADOLPH BERGER, *Consultant*
 ALBIN R. SEIDEL, *Consultant*

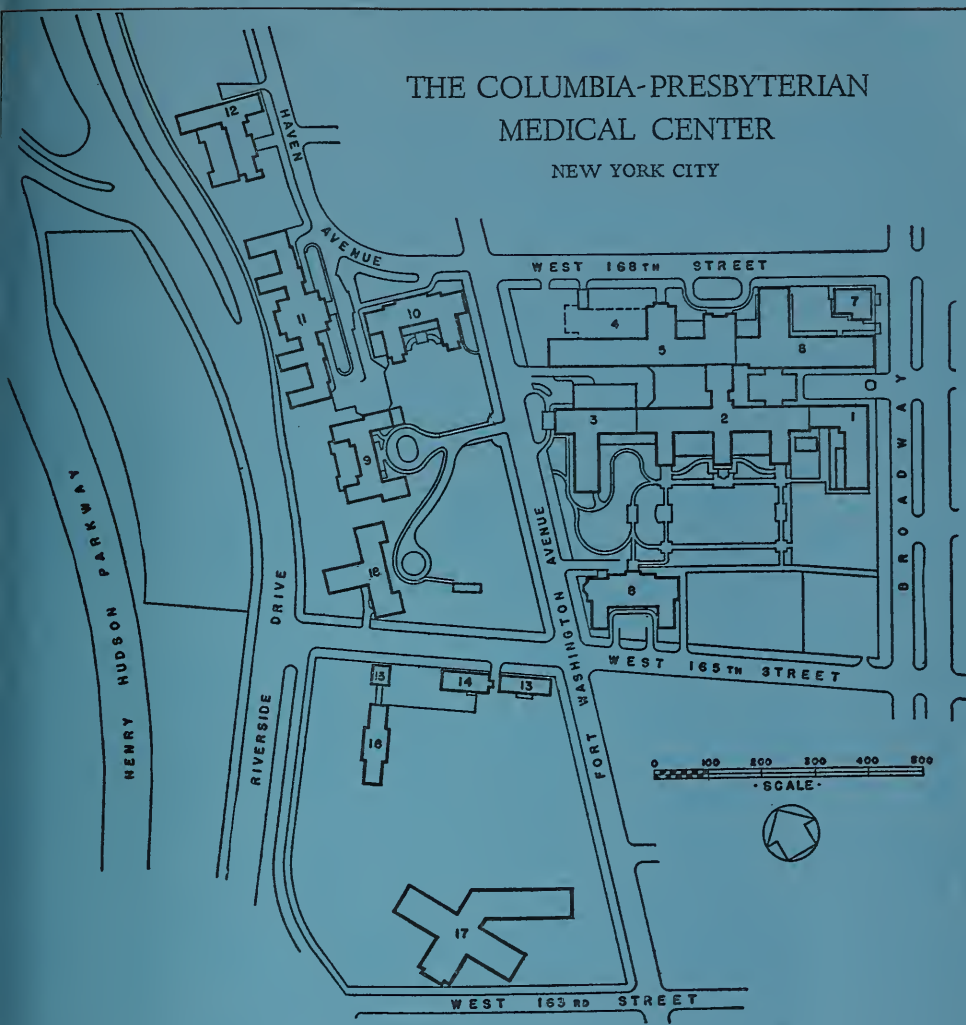
PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., *Assistant Attending Surgeon*
 ROBIN M. RANKOW, D.D.S., M.D., *Assistant Attending Surgeon*

¹ On leave 1954-1955 (military service).

² On leave 1954-1955.

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| New York Orthopaedic Hospital | 11. New York State Psychiatric Institute and Hospital |
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24
13

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